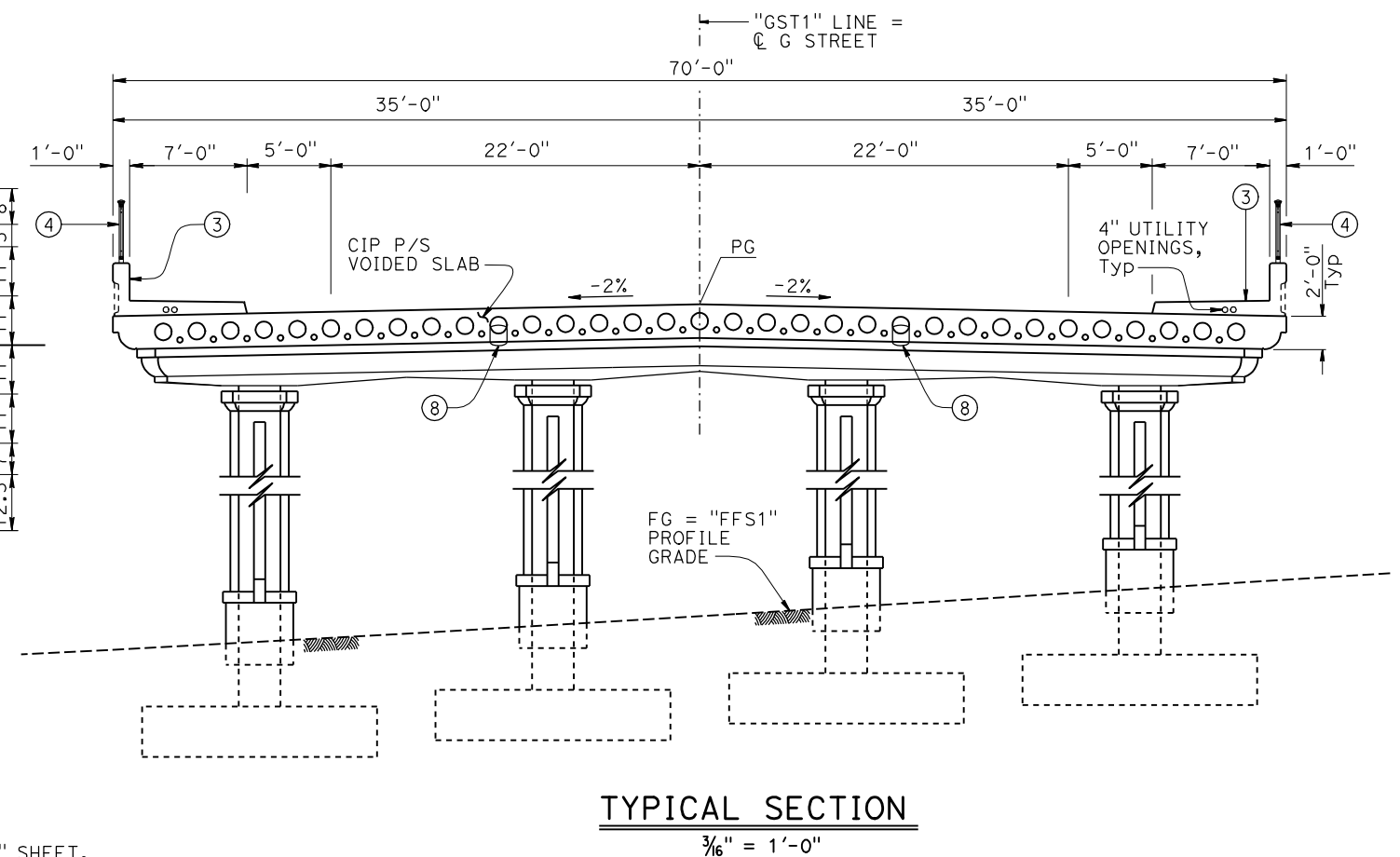


NOTES & LEGEND:

- ① Paint bridge name "G Street Overcrossing"
- ② Paint bridge number "Br No. 42c0669"
- ③ Concrete Barrier Type 26 (Mod)
- ④ Metal picket railing
- ⑤ Pedestrian walkway
- ⑥ City of Fresno "DOWNTOWN STREETLIGHT"
on Structure, see "Road Plans"
- ⑦ City of Fresno "DOWNTOWN STREETLIGHT",
see "Road Plans"
- ⑧ Soffit lighting
- ⬤ Point of minimum vertical clearance
 1. For layout and details of RW1, RW3 and RW5, see "Retaining Wall No. 1, 3, 5 Plans"
 2. For layout and details of RW2, RW4 and RW6, see "Retaining Wall No. 2, 4, 6 Plans"





DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre				

Richard Melko
 REGISTERED CIVIL ENGINEER 05-30-12
 DATE

PLANS APPROVAL DATE _____

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CALIFORNIA
 HIGH-SPEED RAIL AUTHORITY

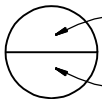
FRITZ HOFFMAN DESIGN ENGINEER	DESIGN	BY DAVID ALVAREZ	CHECKED HILARIO TUAZON	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93, W/ "LOW-BOY" PERMIT DESIGN VEHICLE		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO.	G STREET OVERCROSSING GENERAL PLAN				
	DETAILS	BY SUSAN NG	CHECKED DON NGUYEN-TAN	LAYOUT	BY DAVID ALVAREZ	CHECKED HILARIO TUAZON			42C0669					
	QUANTITIES	BY DON NGUYEN-TAN	CHECKED HILARIO TUAZON	SPECIFICATIONS	BY V. RENGANATHAN	PLANS AND SPECS COMPARED			POST MILE					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS							0 1 2 3	UNIT: 3591 CONTRACT NO.: 06-2HT201 PROJECT NO. & PHASE: 0612000239-1	CHSTP CONTRACT NO.	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET	OF	
STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV.09-01-10)								FILE => 42c0669-a-gp.dgn			04-28-12 05-14-12 05-24-12 05-27-12	1	35	

INDEX TO PLANS

STANDARD PLANS DATED 2010

SHEET NO.	TITLE
1.	GENERAL PLAN
2.	INDEX TO PLANS
3.	DECK CONTOURS
4.	FOUNDATION PLAN
5.	ABUTMENT LAYOUT
6.	ABUTMENT DETAILS NO. 1
7.	ABUTMENT DETAILS NO. 2
8.	RETAINING WALL LAYOUT NO. 1
9.	RETAINING WALL LAYOUT NO. 2
10.	RETAINING WALL LAYOUT NO. 3
11.	RETAINING WALL LAYOUT NO. 4
12.	BENT LAYOUT
13.	BENT DETAILS NO. 1
14.	BENT DETAILS NO. 2
15.	TYPICAL SECTION
16.	SLAB DETAILS
17.	LONGITUDINAL SECTION
18.	TOP SLAB REINFORCEMENT
19.	BOTTOM SLAB REINFORCEMENT
20.	ARCHITECTURAL TREATMENT NO. 1
21.	ARCHITECTURAL TREATMENT NO. 2
22.	ARCHITECTURAL TREATMENT NO. 3
23.	ARCHITECTURAL TREATMENT NO. 4
24.	ARCHITECTURAL TREATMENT NO. 5
25.	ARCHITECTURAL TREATMENT NO. 6
26.	ARCHITECTURAL TREATMENT NO. 7
27.	ARCHITECTURAL TREATMENT NO. 8
28.	ARCHITECTURAL TREATMENT NO. 9
29.	LOG OF TEST BORINGS NO. 1
30.	LOG OF TEST BORINGS NO. 2
31.	LOG OF TEST BORINGS NO. 3
32.	LOG OF TEST BORINGS NO. 4
33.	LOG OF TEST BORINGS NO. 5
34.	LOG OF TEST BORINGS NO. 6
35.	LOG OF TEST BORINGS NO. 7

A10A	ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
A10B	ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)
A10C	LINES AND SYMBOLS (SHEET 1 OF 3)
A10D	LINES AND SYMBOLS (SHEET 2 OF 3)
A10E	LINES AND SYMBOLS (SHEET 3 OF 3)
A10F	LEGEND - SOIL (SHEET 1 OF 2)
A10G	LEGEND - SOIL (SHEET 2 OF 2)
A10H	LEGEND - ROCK
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE
B0-1	BRIDGE DETAILS
B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
RSP B3-1A	RETAINING WALL TYPE 1 (CASE 1)
RSP B3-5	RETAINING WALL DETAILS NO.1
B3-6	RETAINING WALL DETAILS NO.2
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
B7-1	BOX GIRDER DETAILS
B8-5	CAST-IN-PLACE PRESTRESSED GIRDER DETAILS
B11-54	CONCRETE BARRIER TYPE 26
B14-3	COMMUNICATION AND SPRINKLER CONTROL CONDUITS (CONDUIT LESS THAN 4")
ES-1A	ELECTRICAL SYSTEMS (LEGEND, NOTES, AND ABBREVIATIONS)
ES-6A	ELECTRICAL SYSTEMS (LIGHTING STANDARD, TYPES 15 AND 21)
ES-6B	ELECTRICAL SYSTEMS (ELECTROLIER ANCHORAGE AND GROUTING FOR TYPES 15 AND 21 BARRIER RAIL MOUNTED)
ES-9A	ELECTRICAL SYSTEMS (STRUCTURE PULL BOX INSTALLATIONS)
ES-9B	ELECTRICAL SYSTEMS (CONDUIT RISER AND EXPANSION FITTING, STRUCTURE INSTALLATIONS)
ES-9C	ELECTRICAL SYSTEMS (STRUCTURE PULL BOX)
ES-9D	ELECTRICAL SYSTEMS (STRUCTURE PULL BOX INSTALLATIONS)
ES-9E	ELECTRICAL SYSTEMS (FLUSH SOFFIT, PENDANT SOFFIT AND WALL LUMINAIRE, STRUCTURE INSTALLATIONS)
ES-9F	ELECTRICAL SYSTEMS (FLUSH SOFFIT LUMINAIRE DETAILS)



STANDARD PLAN SHEET No.

DETAIL No.

GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN

DESIGN:

AASHTO LRFD Bridge Design Specifications, 4th edition with the November, 2011 Interims and the California Amendments

SEISMIC DESIGN:

Caltrans Seismic Design Criteria (SDC), Version 1.6 dated November, 2010

DEAD LOAD:

Includes 35 psf for future wearing surface.

LIVE LOADING:

HL93 and permit design load.

SEISMIC LOADING:

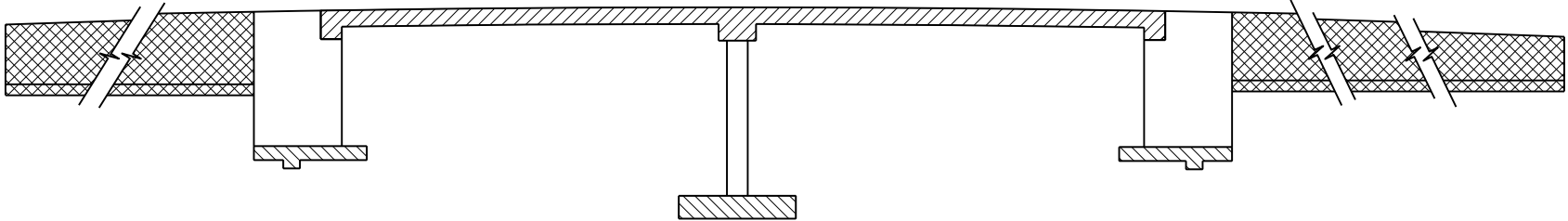
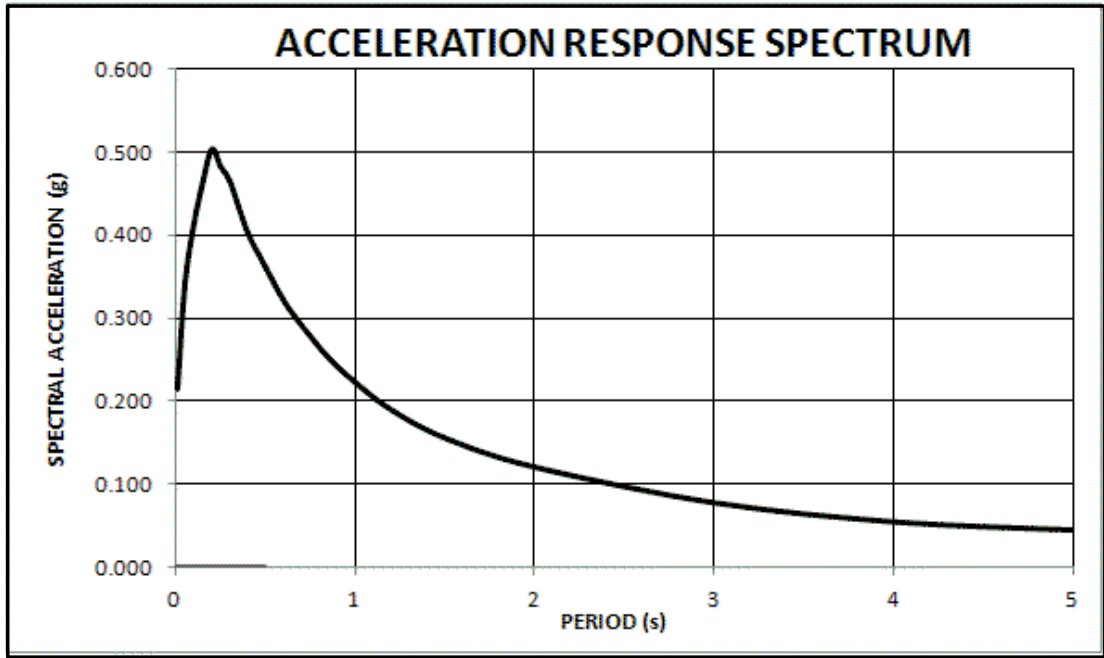
See Acceleration Response Spectrum

CONCRETE:

fy = 60 ksi

See Prestressing Notes and Concrete Strength and Type Limits

Support Location	Working Stress Design (WSD)		Load and Resistance Design (LRFD)		
	Permissible Gross Bearing Capacity	Allowable Gross Bearing Capacity	Service Permissible Net Contact stress (Settlement)	Strength Factored Gross Nominal Bearing Resistance $\phi = 0.45$ (ksf)	Extreme Event Factored Gross Nominal Bearing Resistance $\phi = 1.0$ (ksf)
Abutment 1	3.8 (ksf)	8.5 (ksf)	N/A (ksf)	N/A (ksf)	N/A (ksf)
Bent 2	N/A	N/A	4.0	29.3	N/A
Abutment 3	3.8	8.5	N/A	N/A	N/A



- STRUCTURAL CONCRETE, BRIDGE ($f'c = 5000$ psi)
- STRUCTURAL CONCRETE, BRIDGE ($f'c = 3600$ psi)
- STRUCTURAL CONCRETE, BRIDGE FOOTING
- STRUCTURAL CONCRETE, RETAINING WALL

CONCRETE STRENGTH AND TYPE LIMITS

$\frac{3}{32}'' = 1'-0''$

DESIGN	BY DAVID ALVAREZ	CHECKED HILARIO TUAZON
DETAILS	BY SUSAN NG	CHECKED DON NGUYEN-TAN
QUANTITIES	BY DON NGUYEN-TAN	CHECKED HILARIO TUAZON

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO.
42C0669
POST MILE

G STREET OVERCROSSING
INDEX TO PLANS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES
FOR REDUCED PLANS

0 1 2 3

UNIT: 3591 CONTRACT NO.: 06-2HT201
PROJECT NO. & PHASE: 0612000239-1

CHSTP CONTRACT NO.

DISREGARD PRINTS BEARING
EARLIER REVISION DATES

REVISION DATES

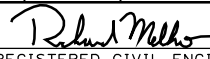
SHEET OF

2 35

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre				


REGISTERED CIVIL ENGINEER

05-30-12
DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER

RICHARD MELKO

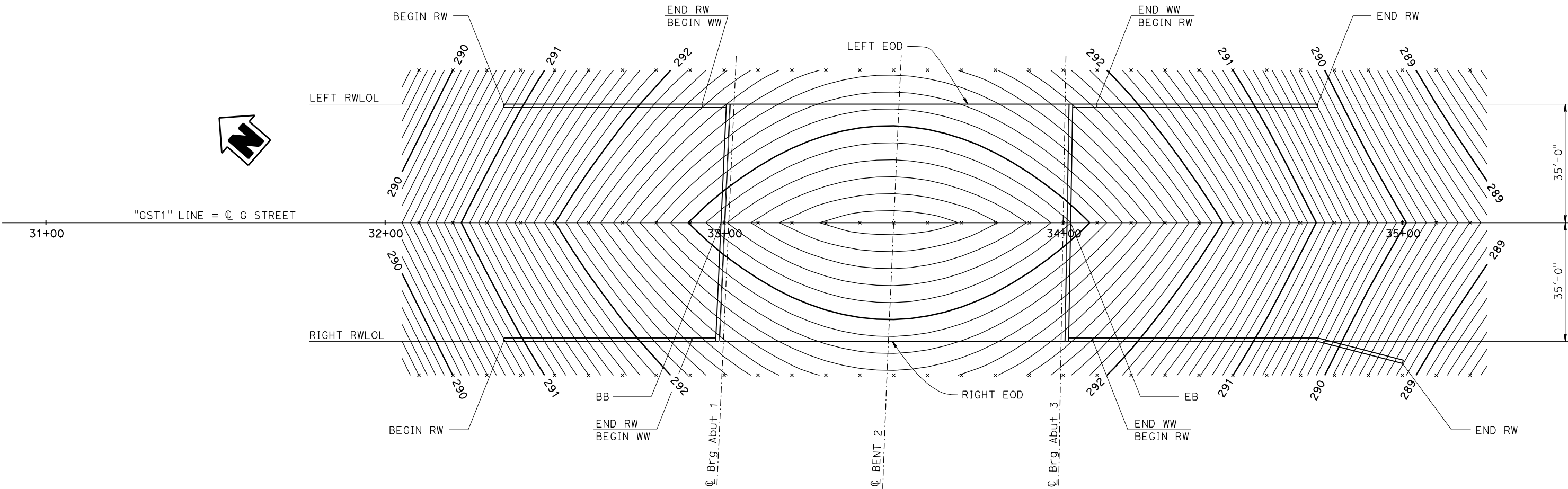
No. C 61617

Exp. 06/30/13

CIVIL

STATE OF CALIFORNIA

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DECK CONTOURS
1" = 15'-0"

- NOTES:
- 1. Contour interval = 0.1'
 - 2. x = 10'-0" intervals along station line
 - 3. Contours do not include camber

DESIGN	BY DAVID ALVAREZ	CHECKED HILARIO TUAZON
DETAILS	BY SUSAN NG	CHECKED DON NGUYEN-TAN
QUANTITIES	BY DON NGUYEN-TAN	CHECKED HILARIO TUAZON

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO.
42C0669
POST MILE

G STREET OVERCROSSING
DECK CONTOURS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES
FOR REDUCED PLANS



UNIT: 3591 CONTRACT NO.: 06-2HT201
PROJECT NO. & PHASE: 0612000239-1

CHSTP CONTRACT NO.

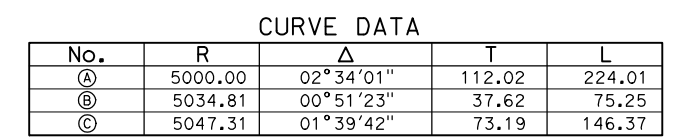
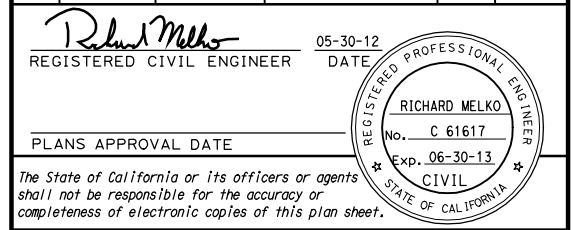
DISREGARD PRINTS BEARING
EARLIER REVISION DATES

REVISION DATES	
05-12-12	05-24-12

SHEET	OF
3	35

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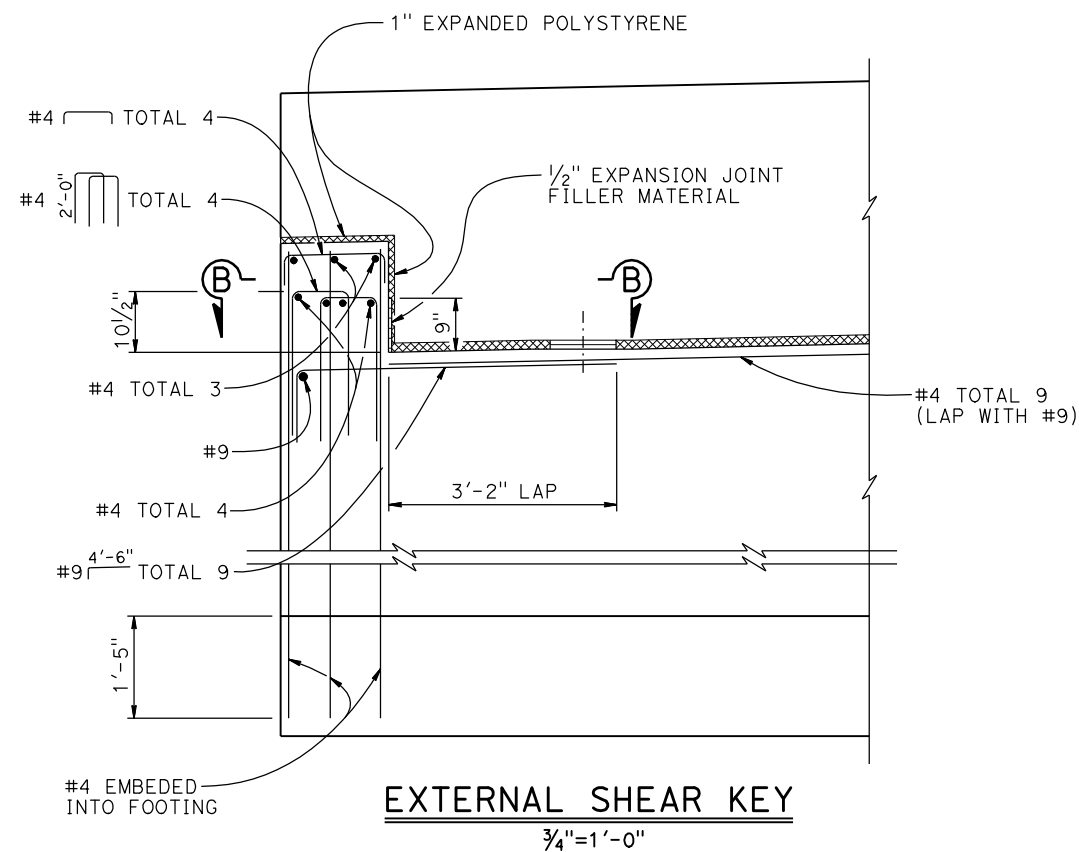
LEGEND:

XXX.XX ---Indicates bottom of footing elevation

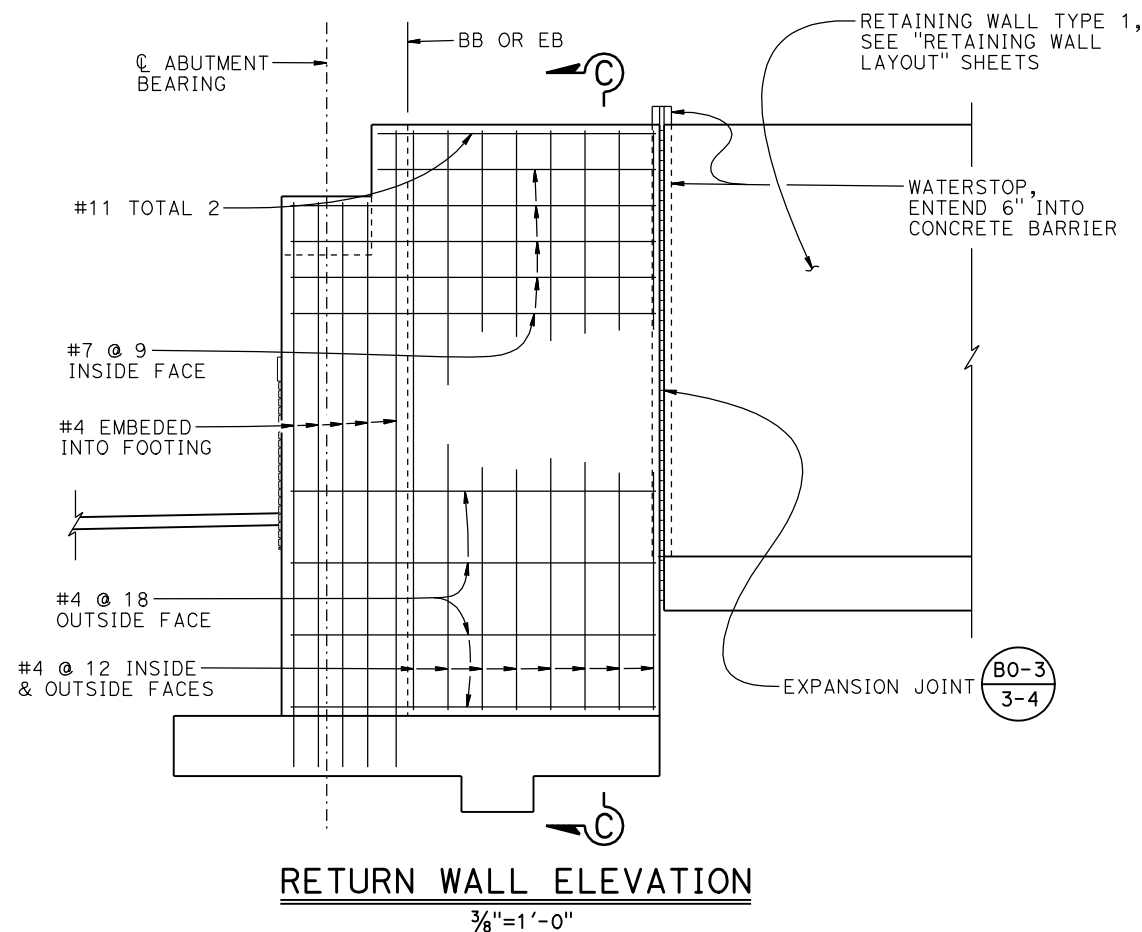
Note(s):

1. Tree diameters unknown
2. Utilities taken from CHSRA's Utility Map
3. BSOF = Bridge Soffit

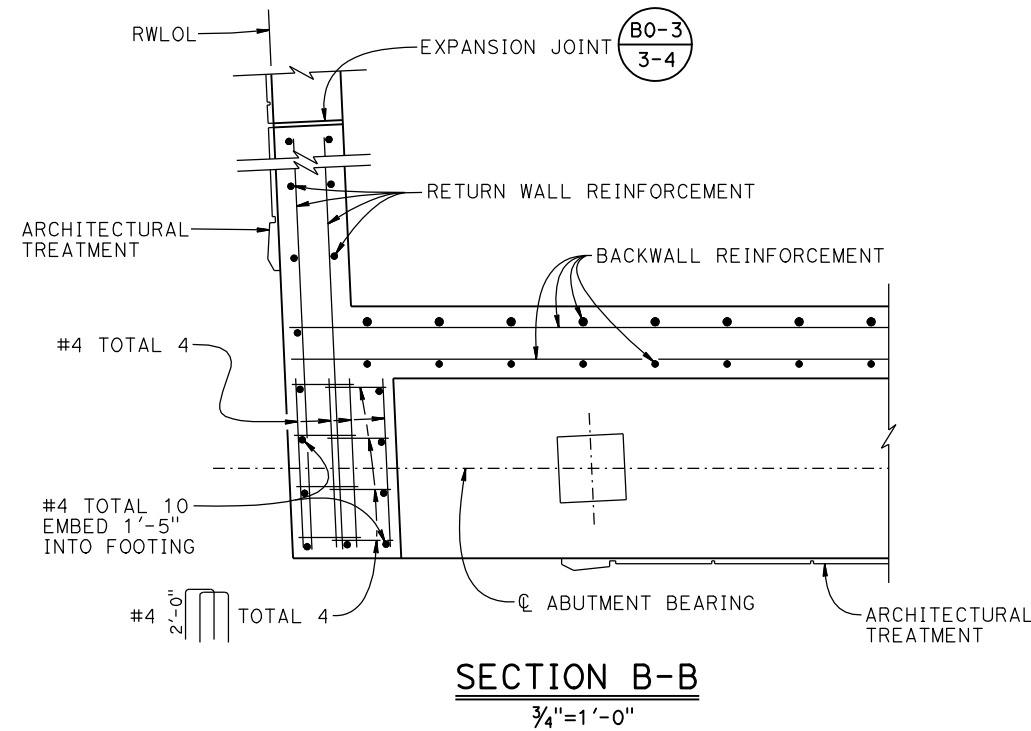
PRELIMINARY INVESTIGATION SECTION										DESIGN		BY DAVID ALVAREZ		CHECKED HILARIO TUAZON		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION				DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6				BRIDGE NO.		G STREET OVERCROSSING FOUNDATION PLAN																																									
SCALE		VERT.DATUM NAVD88				PHOTOGRAMMETRY AS OF: per CHSRA				DETAILS		BY SUSAN NG		CHECKED DAVID ALVAREZ										42C0669																																											
1"=20'		HORZ.DATUM NAD83				SURVEYED		BY District 6		CHECKED		BY C. Fassettt 04/12		QUANTITIES										BY DAVID ALVAREZ												CHECKED HILARIO TUAZON		POST MILE		20.74																											
ALIGNMENT TIES Dist. Traverse Sheet						DRAFTED		BY C. Fassettt 04/12		CHECKED		BY T. Schmalz 04/12		STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REV. 09-01-10)										ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0				1				2				3				UNIT: 3646				PROJECT NUMBER & PHASE: 0612000239-1				CONTRACT NO.: 06-2HT201				DISREGARD PRINTS BEARING EARLIER REVISION DATES				REVISION DATES				SHEET		OF	
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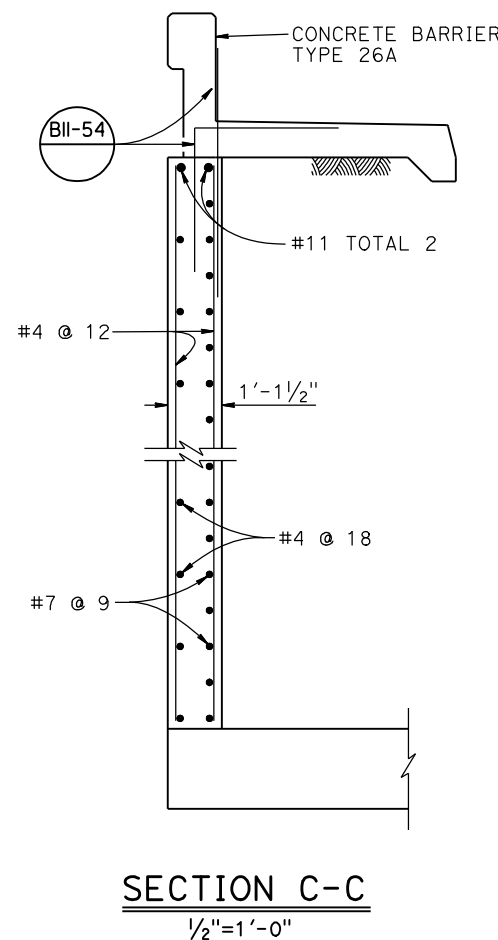
EXTERNAL SHEAR KEY
3/4"=1'-0"



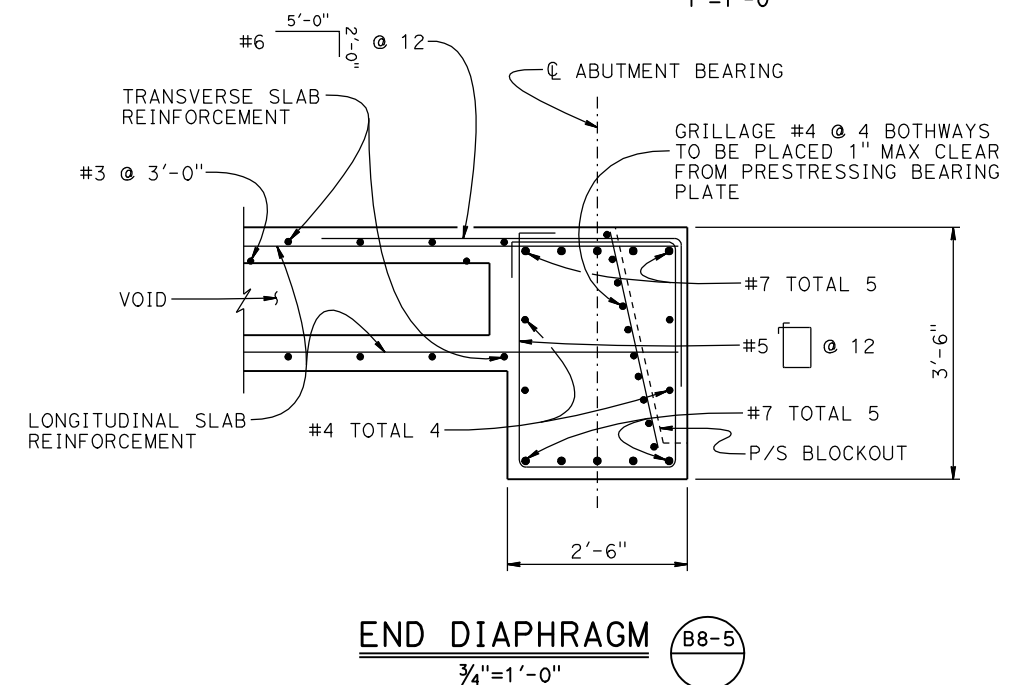
RETURN WALL ELEVATION
3/8"=1'-0"



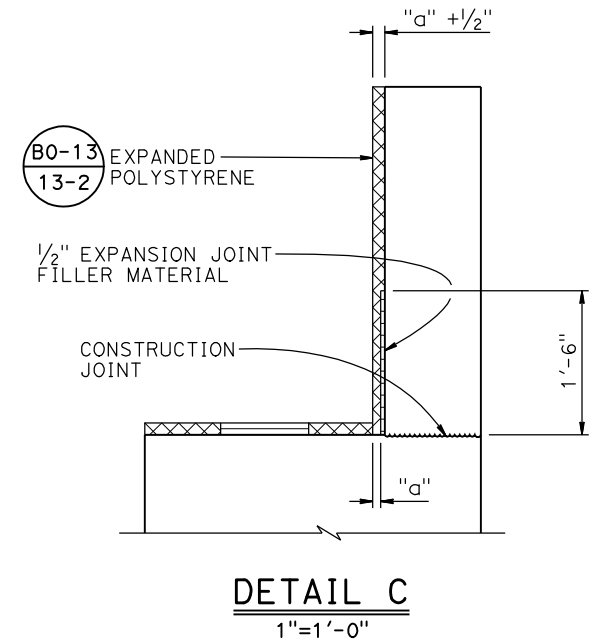
SECTION B-B
3/4"=1'-0"



SECTION C-C
1/2"=1'-0"



END DIAPHRAGM
3/4"=1'-0"



DETAIL C
1"=1'-0"

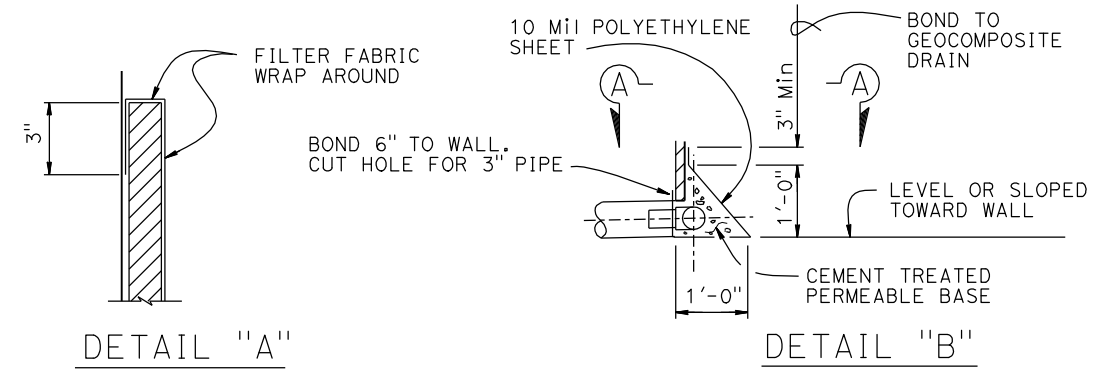
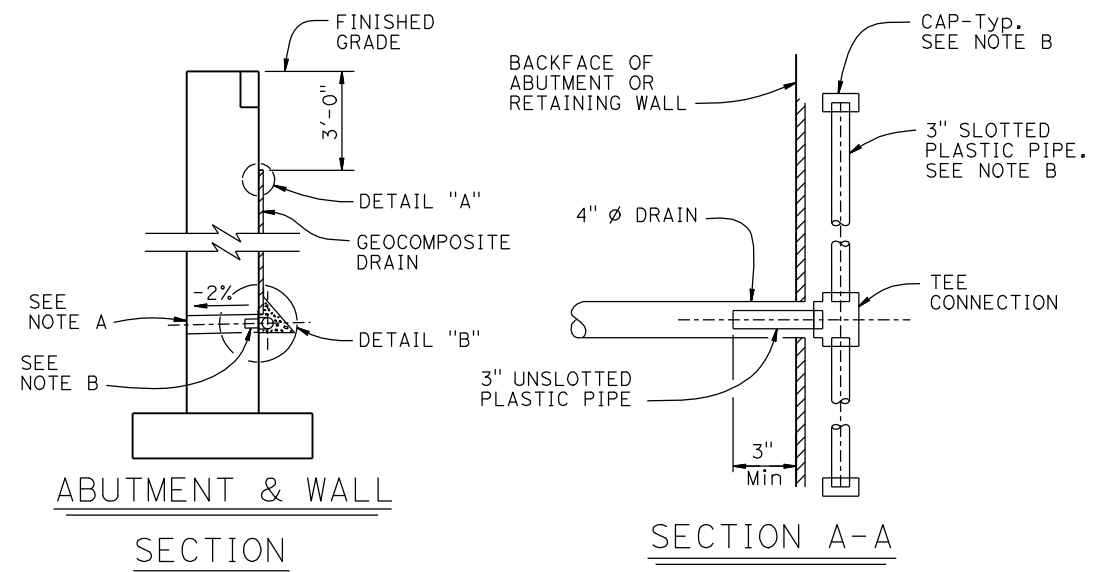
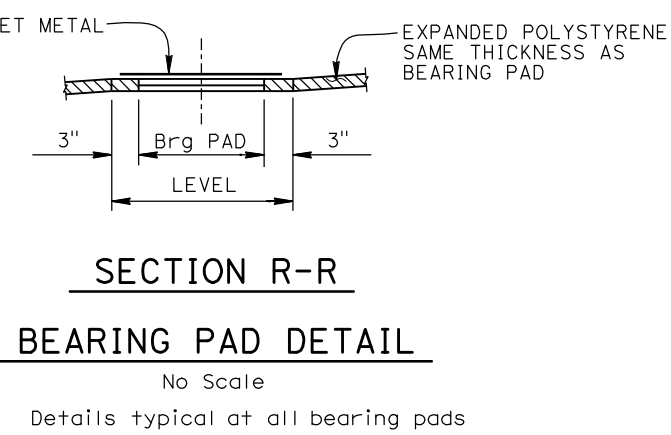
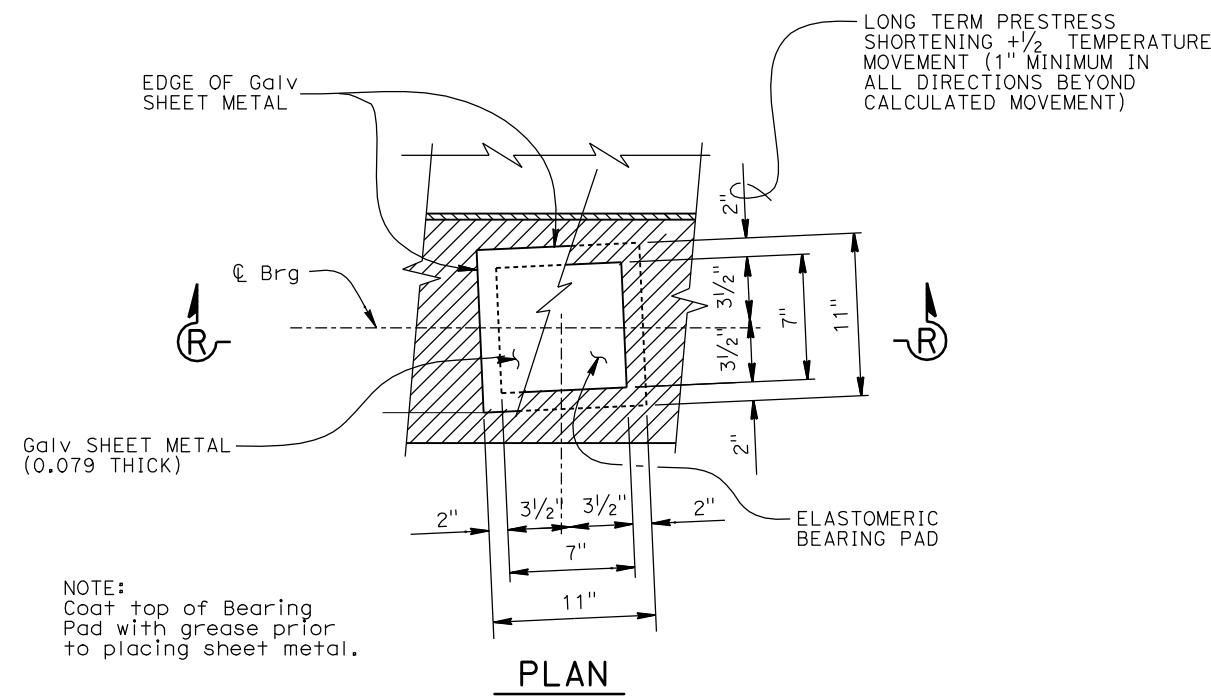
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre				

Registered Civil Engineer
 Richard Melko
 No. C 61617
 Exp. 6-30-13
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE
 5-30-12
 DATE

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	DESIGN	BY D. Alvarez	CHECKED H. Tuazon	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO.	G STREET OVERCROSSING ABUTMENT DETAILS NO. 1				
	DETAILS	BY D. Pato	CHECKED D. Alvarez			42C0669					
	QUANTITIES	BY D. Alvarez	CHECKED H. Tuazon			POST MILE					
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	UNIT: 3591 CONTRACT NO.: 06-2HT201 PROJECT NO. & PHASE: 0612000239-1	CHSTP CONTRACT NO.	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET	OF
									5-1-12 5-24-12	6	35



WEEP HOLE AND GEOCOMPOSITE DRAIN

ALTERNATIVE TO BRIDGE DETAIL

BO-3
3-1

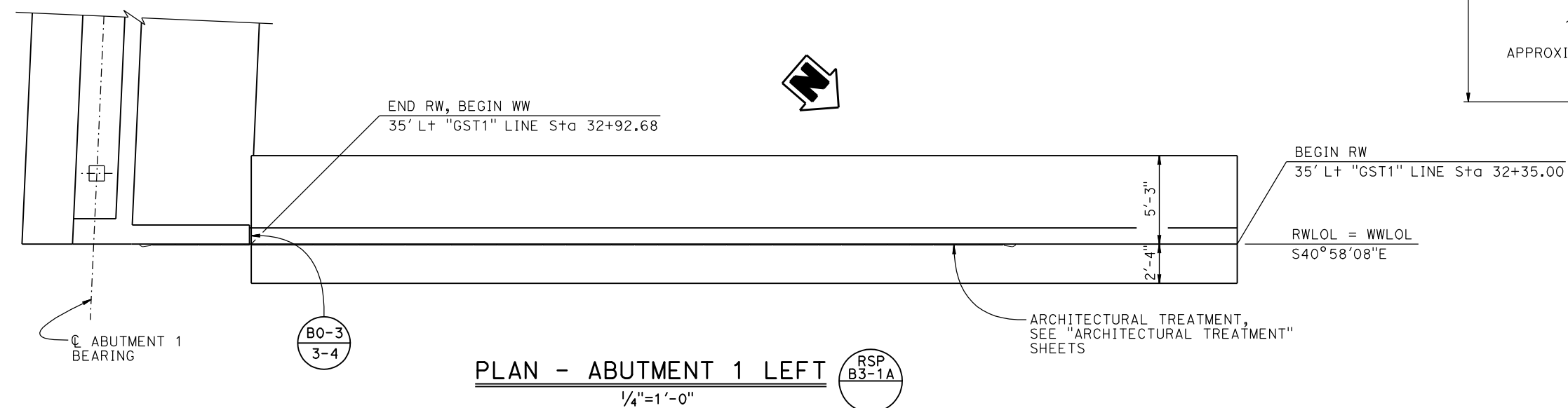
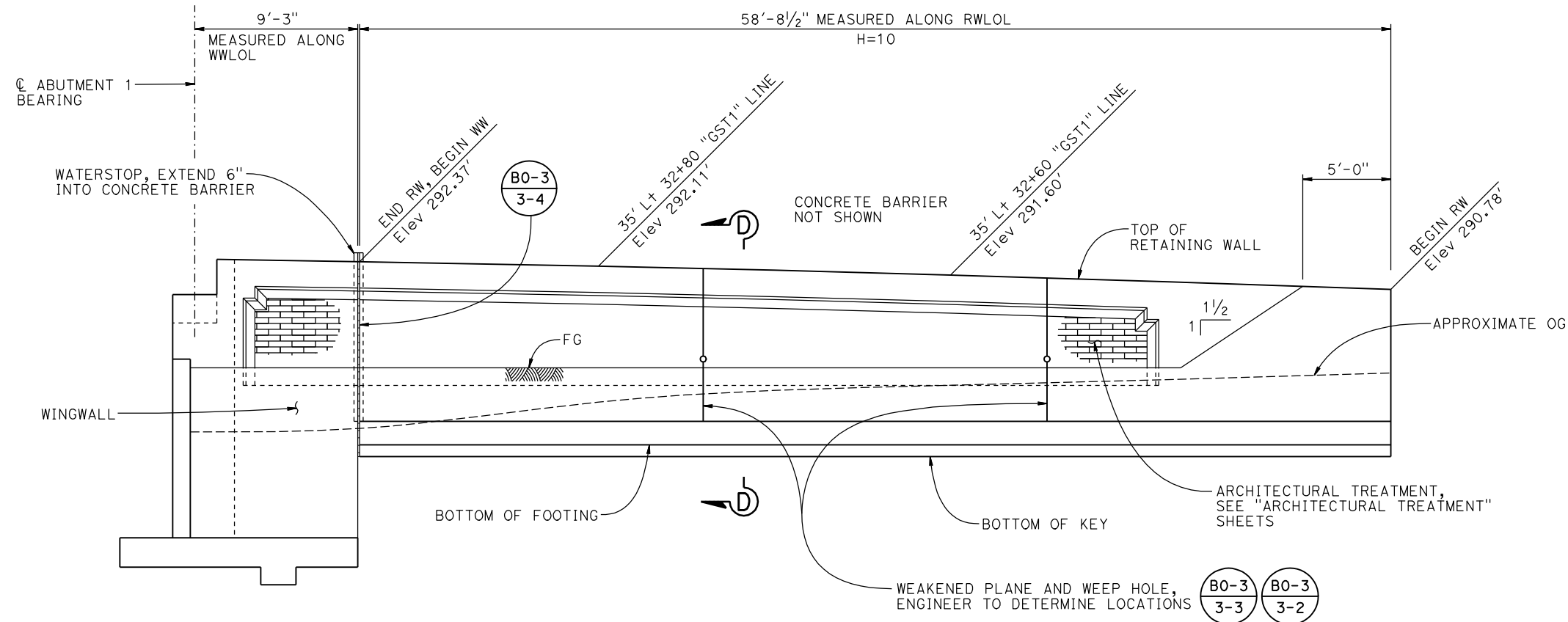
- Notes:
- A. 4" Ø Drains through wall at abutment. Exposed wall and abutment drains shall be located 3'± above finished grade.
 - B. Geocomposite drain, cement treated permeable base, and 3" Ø slotted plastic pipe continuous behind retaining wall or abutment. Cap ends of pipe. Provide "Tee" connection at each 4" Ø drain.
 - C. Connect the low end of plastic pipe to the main outlet pipe as applicable.

Richard Melko 5-30-12
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

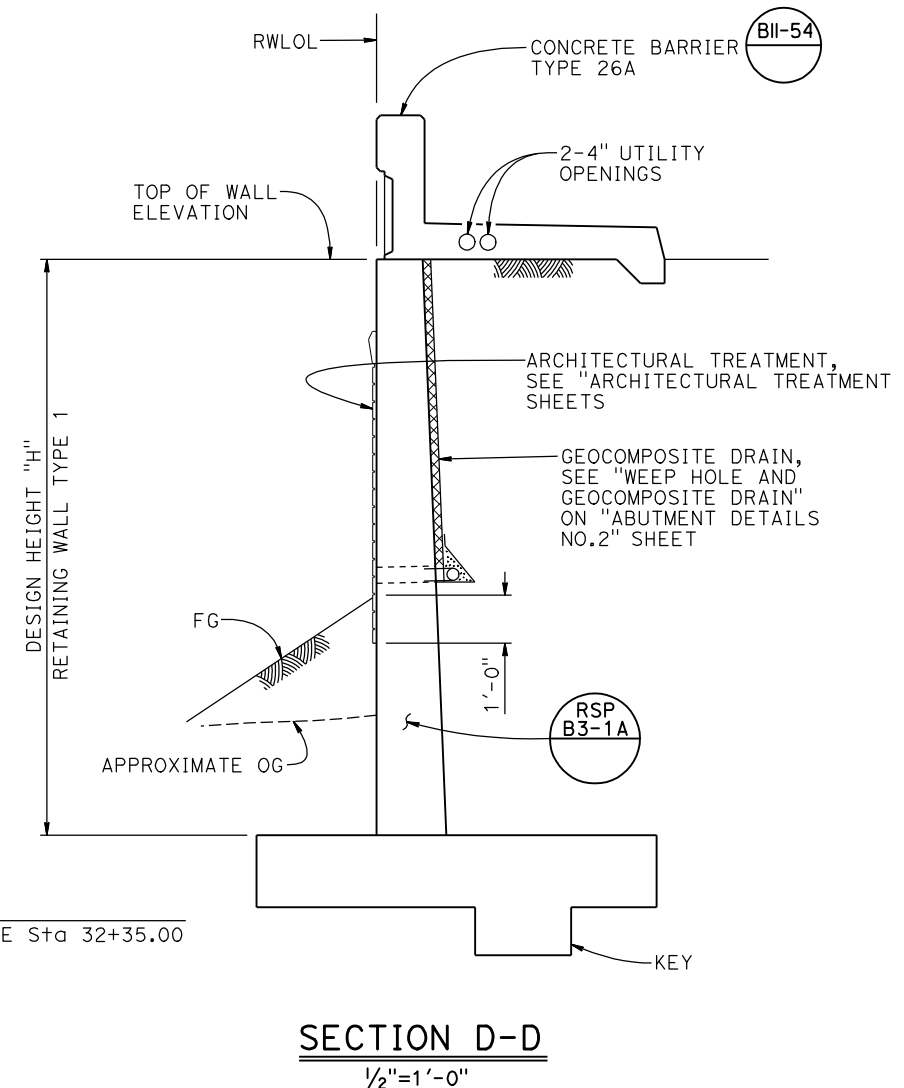
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REGISTERED PROFESSIONAL ENGINEER
RICHARD MELKO
No. C 61617
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA



PLAN - ABUTMENT 1 LEFT

$\frac{1}{4}"=1'-0"$



SECTION D-D
 $\frac{1}{2}''=1'-0''$

NOTE:
Retaining Wall Abutment 1 Left shown,
other retaining walls similar.

G STREET OVERCROSSING
RETAINING WALL LAYOUT NO.1

REVISION DATES				SHEET	OF
5-8-12	5-25-12			8	35

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FILE => 42c0669-g-rwde+01-1l.dgn
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DIST
06

COUNTY
Fre

ROUTE

POST MILES
TOTAL PROJECT

SHEET
No.

TOTAL
SHEETS

Richard Melko

REGISTERED CIVIL ENGINEER

5-30-12

DATE

REGISTERED PROFESSIONAL ENGINEER

RICHARD MELKO

No. C 61617


Exp. 6-30-13

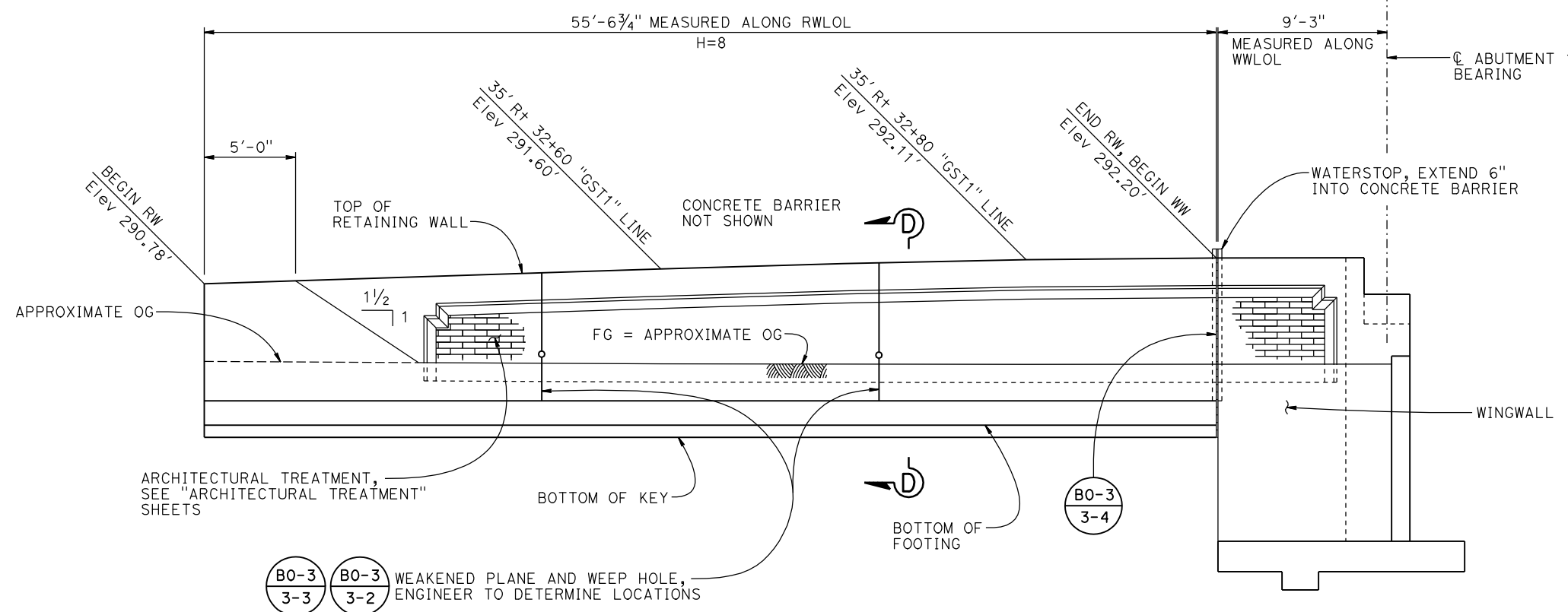
CIVIL

STATE OF CALIFORNIA

PLANS APPROVAL DATE

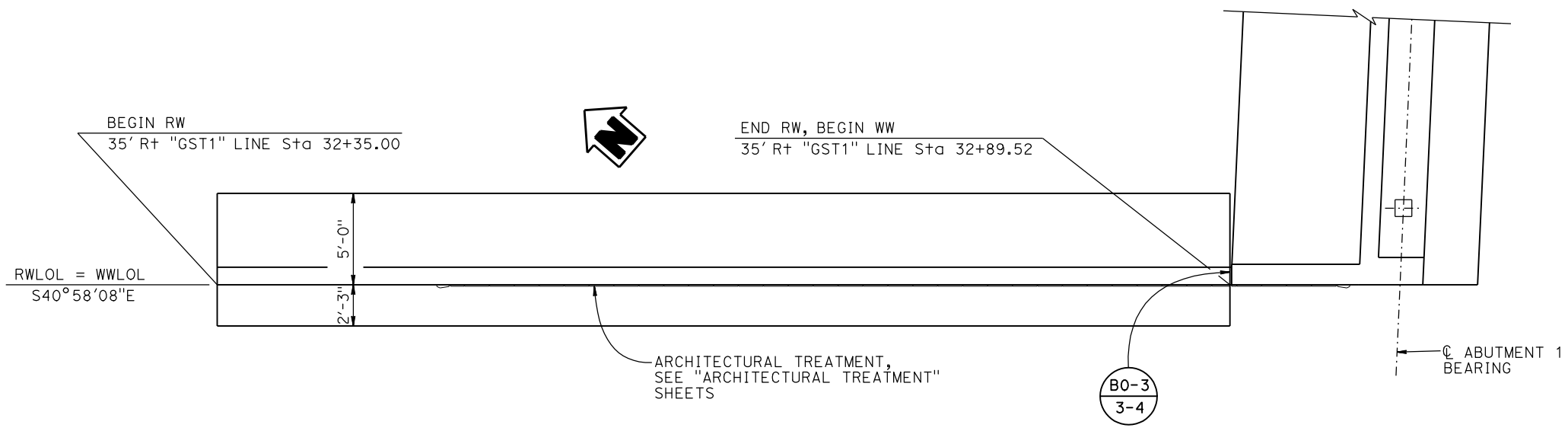
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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

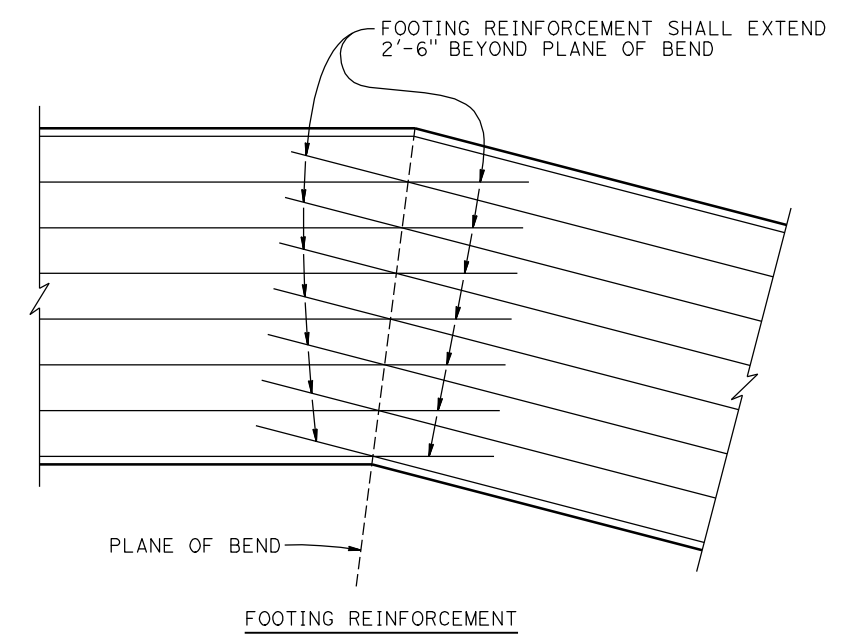
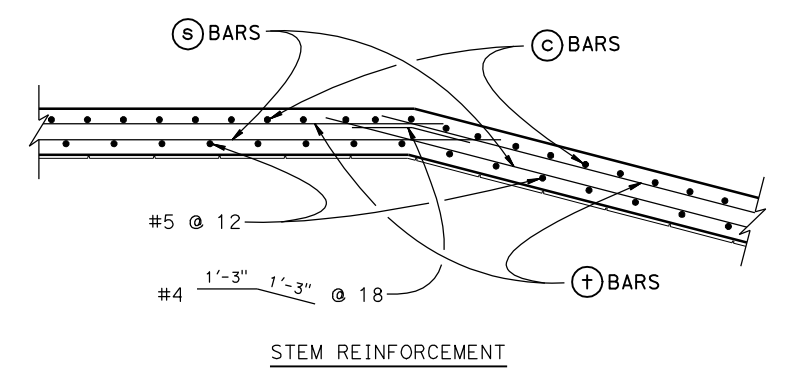


ELEVATION - ABUTMENT 1 RIGHT
1/4"=1'-0"

NOTE:
For "SECTION D-D", see "RETAINING WALL LAYOUT NO.1" sheet.



PLAN - ABUTMENT 1 RIGHT
1/4"=1'-0"



DETAIL D
1/2"=1'-0"

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

DESIGN	BY D. Alvarez	CHECKED H. Tuazon
DETAILS	BY D. Pato	CHECKED D. Alvarez
QUANTITIES	BY D. Alvarez	CHECKED H. Tuazon

STATE OF
CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO.
42C0669

POST MILE

G STREET OVERCROSSING
RETAINING WALL LAYOUT NO.2

UNIT: 3591 CONTRACT NO.: 06-2HT201
PROJECT NO. & PHASE: 0612000239-1

CHSTP CONTRACT NO.

DISREGARD PRINTS BEARING
EARLIER REVISION DATES

REVISION DATES

5-18-12	5-25-12		
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SHEET
9

OF
35

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DATE PLOTTED => 30-MAY-2012

TIME PLOTTED => 16:34


DIST06COUNTYFreROUTEPOST MILESTOTAL PROJECTTOTAL SHEETS

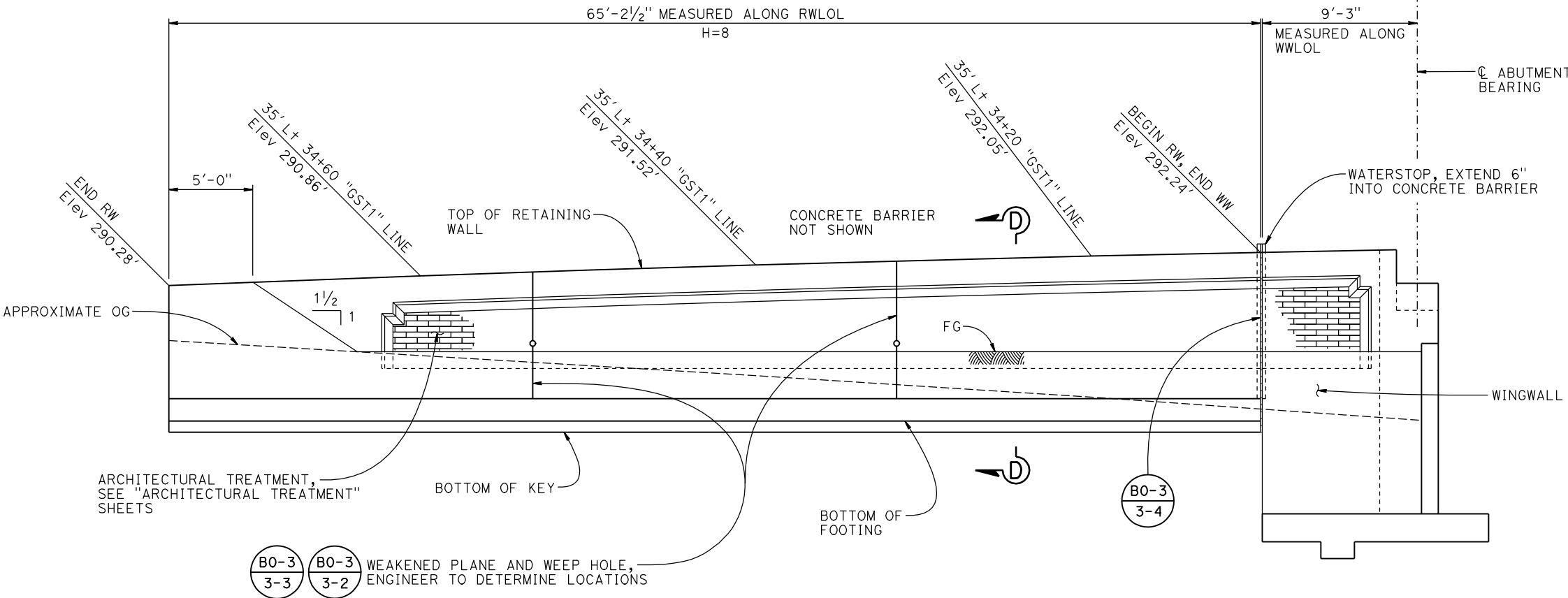
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REGISTERED CIVIL ENGINEERNo. C 61617Exp. 6-30-13CIVIL

PLANS APPROVAL DATE

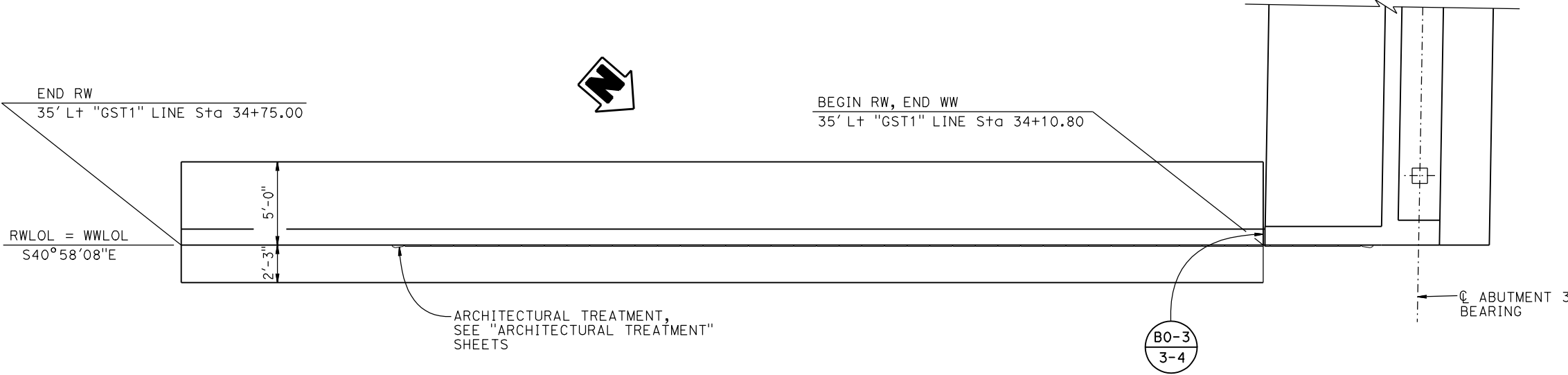
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CALIFORNIAHIGH-SPEED RAIL AUTHORITY



ELEVATION - ABUTMENT 3 LEFT
1/4"=1'-0"

NOTE:
For "SECTION D-D", see "RETAINING WALL LAYOUT NO.1" sheet.



PLAN - ABUTMENT 3 LEFT
1/4"=1'-0"

DESIGN	BY D. Alvarez	CHECKED H. Tuazon
DETAILS	BY D. Pato	CHECKED D. Alvarez
QUANTITIES	BY D. Alvarez	CHECKED H. Tuazon

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO.
42C0669
POST MILE

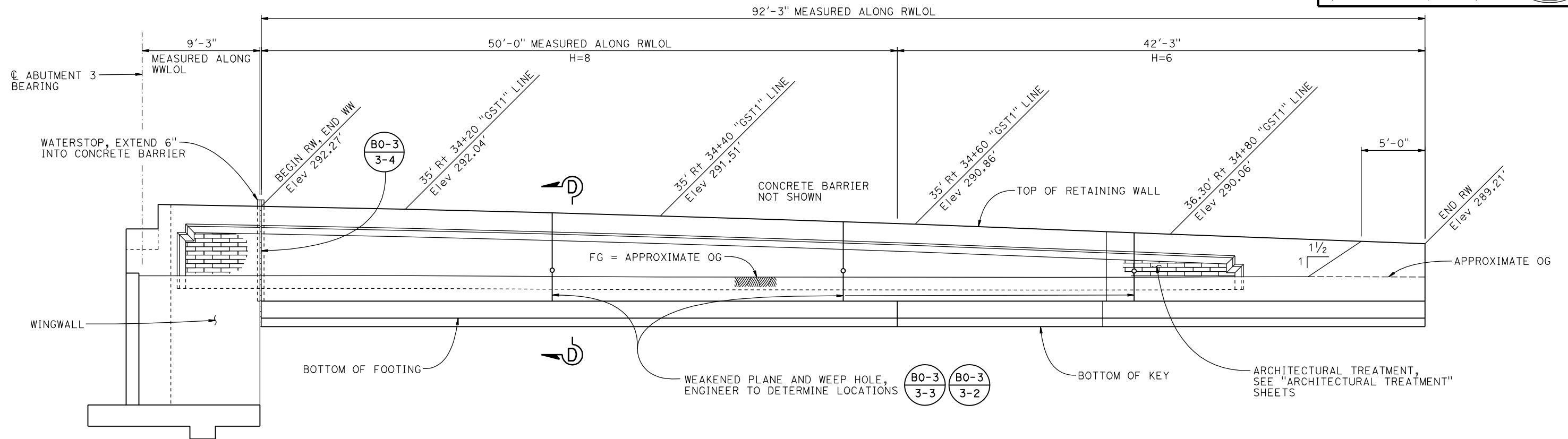
G STREET OVERCROSSING
RETAINING WALL LAYOUT NO.3



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre				
REGISTERED CIVIL ENGINEER			DATE 5-30-12		
PLANS APPROVAL DATE			REGISTERED PROFESSIONAL ENGINEER		
			No. C 61617		
			Exp. 6-30-13		
			CIVIL		
			STATE OF CALIFORNIA		

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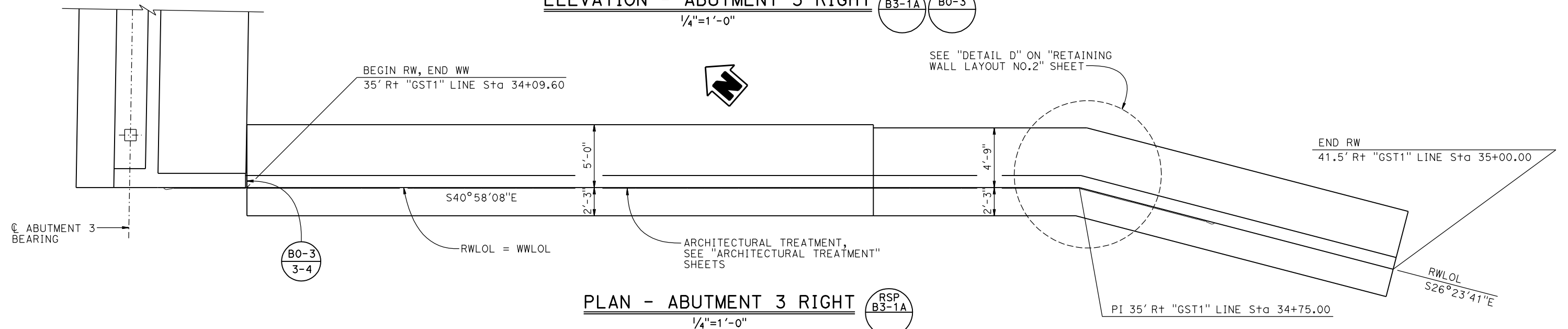
ELEVATION - ABUTMENT 3 RIGHT
1/4"=1'-0"

RSP
B3-1A

B0-3

NOTE:
For "SECTION D-D", see "RETAINING WALL LAYOUT NO.1" sheet.

SEE "DETAIL D" ON "RETAINING WALL LAYOUT NO.2" SHEET



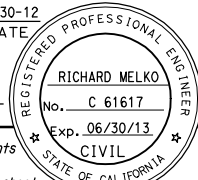
PLAN - ABUTMENT 3 RIGHT
1/4"=1'-0"

RSP
B3-1A

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY D. Alvarez	CHECKED H. Tuazon	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO.	G STREET OVERCROSSING RETRAINING WALL LAYOUT NO.4	
	DETAILS	BY D. Pato	CHECKED D. Alvarez			42C0669		
	QUANTITIES	BY D. Alvarez	CHECKED H. Tuazon			POST MILE		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT: 3591 CONTRACT NO.: 06-2HT201 PROJECT NO. & PHASE: 0612000239-1	CHSTP CONTRACT NO.	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 11 OF 35

FILE => 42c0669-g-rwde+04-3r.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre				




05-30-12
DATE

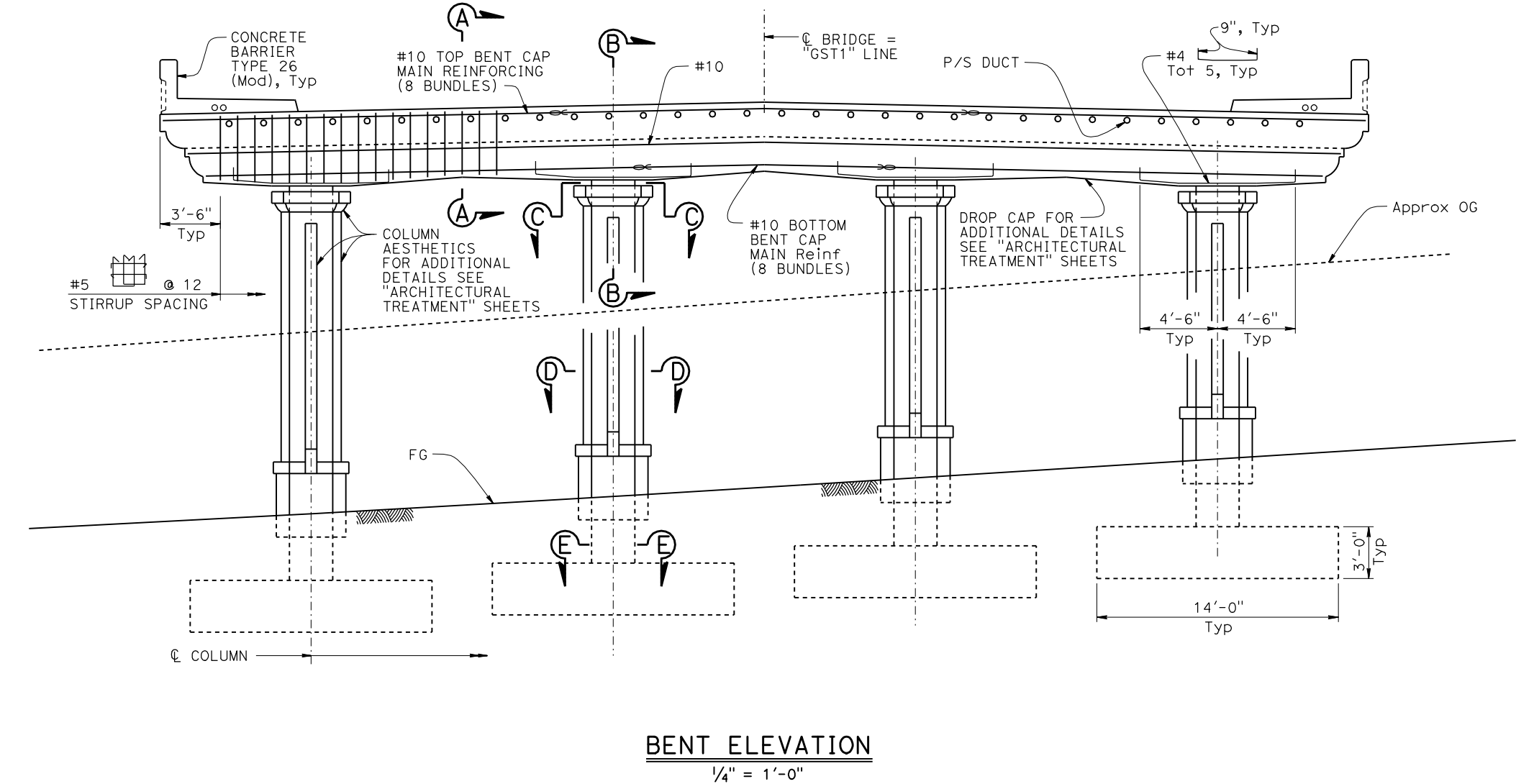
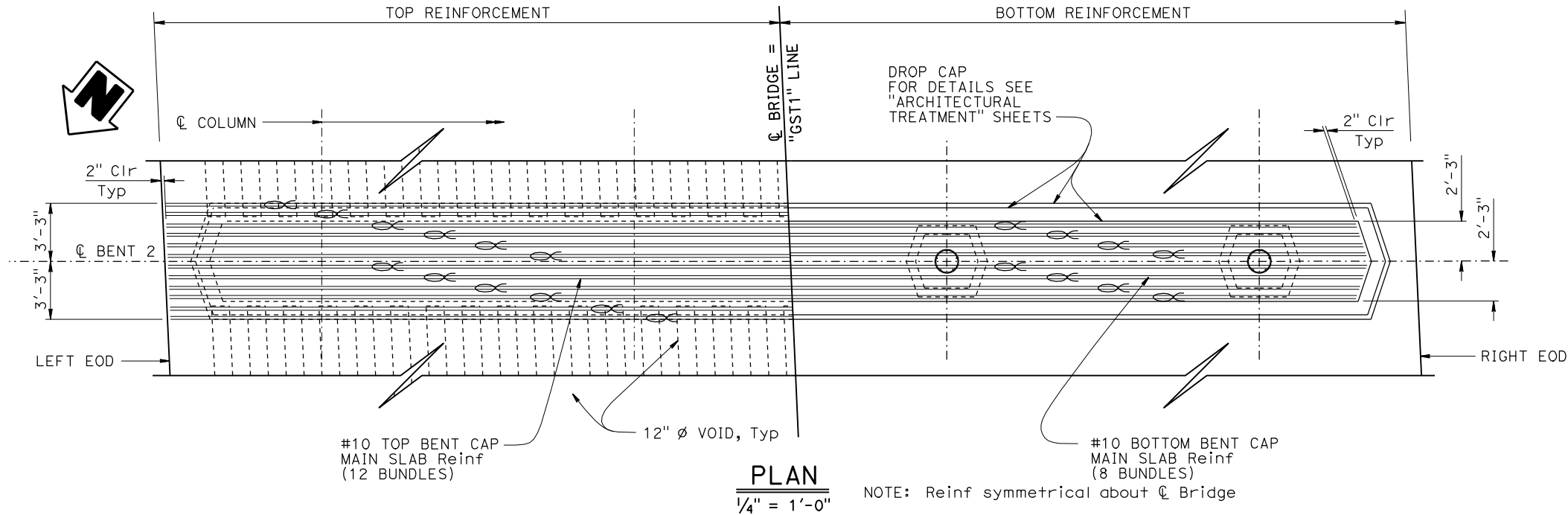
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE


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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY



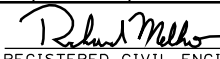
NOTES:

1. No splices allowed in main column Reinf.
2. Bent cap main reinforcing may be "Service" spliced continuous.
3. Bundled bars shown thus: 
4. All hoops shall be "Ultimate" butt spliced continuous.
5. Place stirrups perpendicular to ϕ Bent and space along ϕ Bent.
6. For "SECTION A-A", "SECTION B-B, and "SECTION C-C", see "BENT DETAILS NO. 2" sheet.
7. For "SECTION D-D" and "SECTION E-E", see "BENT DETAILS NO. 1" sheet.
8. See "ARCHITECTUAL TREATMENT" sheets for additional dimensions and details.

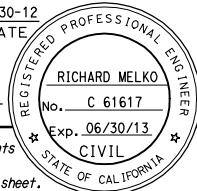
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY DAVID ALVAREZ	CHECKED HILARIO TUAZON	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO.	G STREET OVERCROSSING									
	DETAILS	BY SUSAN NG	CHECKED DON NGUYEN-TAN			42C0669	BENT LAYOUT									
	QUANTITIES	BY DON NGUYEN-TAN	CHECKED HILARIO TUAZON			POST MILE										
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0	1	2	3	UNIT: 3591 CONTRACT NO.: 06-2HT01 PROJECT NO. & PHASE: 0612000239-1	CHSTP CONTRACT NO.		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES		SHEET	OF
FILE => 42c0669-h-bnt-lo-01.dgn				0 1 2 3							05-05-12 05-06-12 05-25-12 05-30-12		12	35		

- NOTES:
1. See "ARCHITECTURAL TREATMENT" sheets for additional details.
 2. No splices allowed in main column Reinf.
 3. All hoops shall be "Ultimate" butt spliced continuous.
 4. Bent cap main reinforcing may be "Service" spliced continuous.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre				



REGISTERED CIVIL ENGINEER

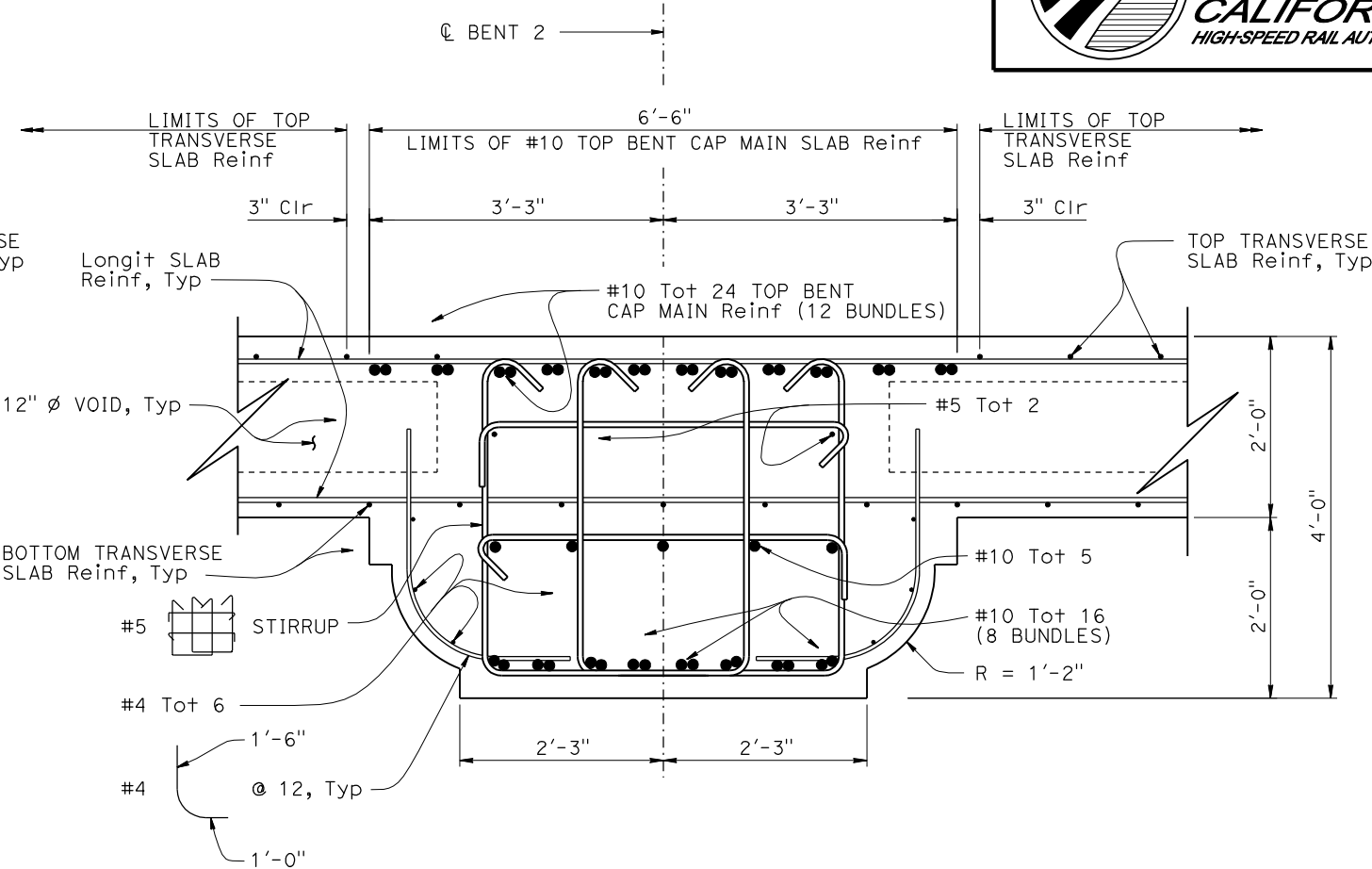
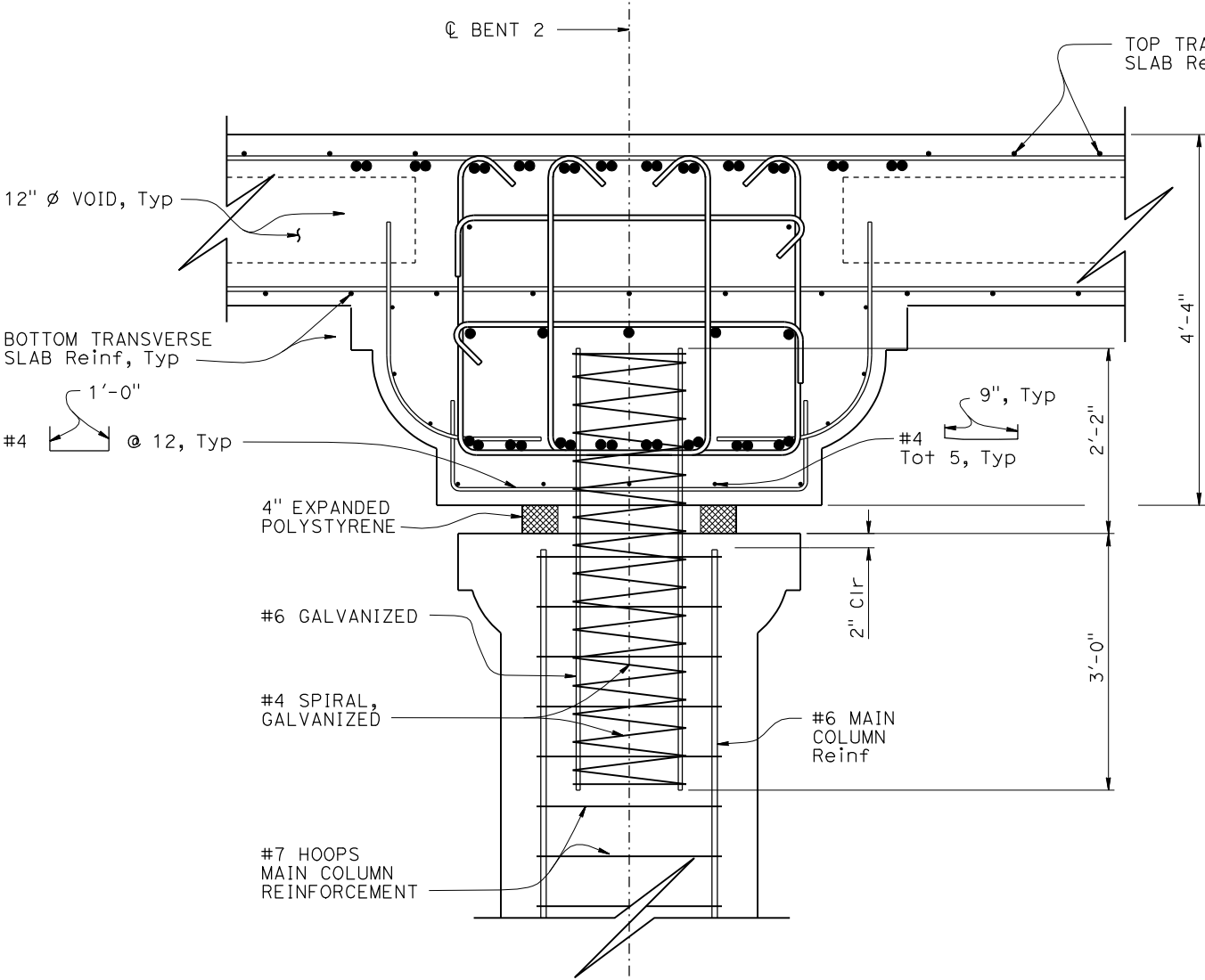
05-30-12
DATE



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DETAILS	BY SUSAN NG	CHECKED DON NGUYEN-TAN
QUANTITIES	BY DON NGUYEN-TAN	CHECKED HILARIO TUAZON

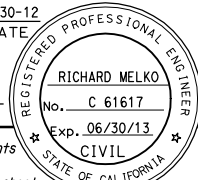
STATE OF
CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO.
42C0669
POST MILE

G STREET OVERCROSSING
BENT DETAILS NO. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre				



05-30-12
DATE
REGISTERED CIVIL ENGINEER

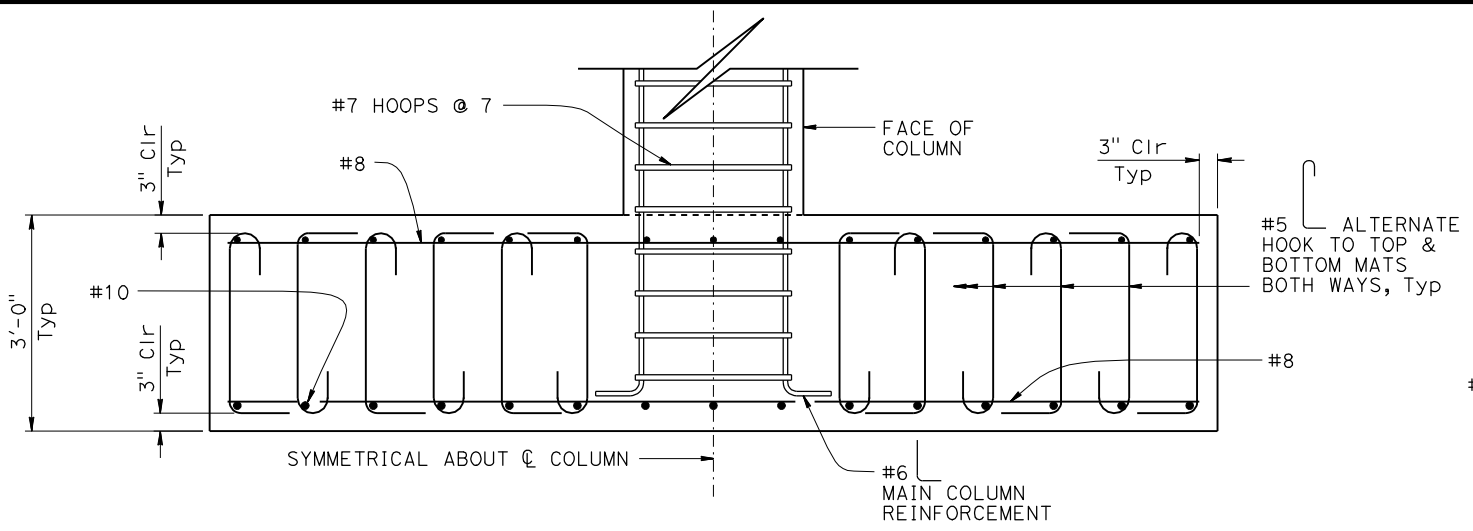
Planned Melko
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

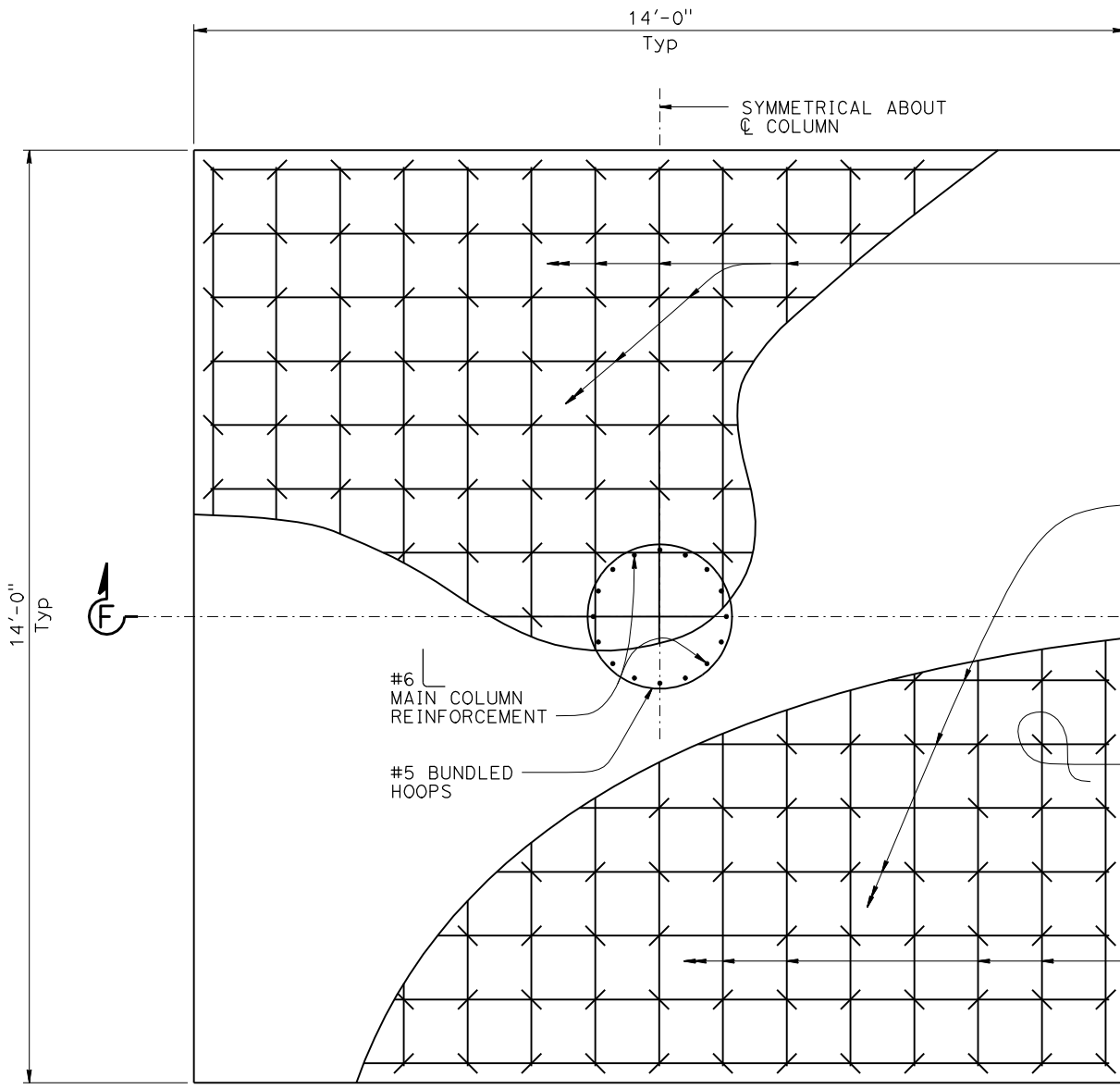
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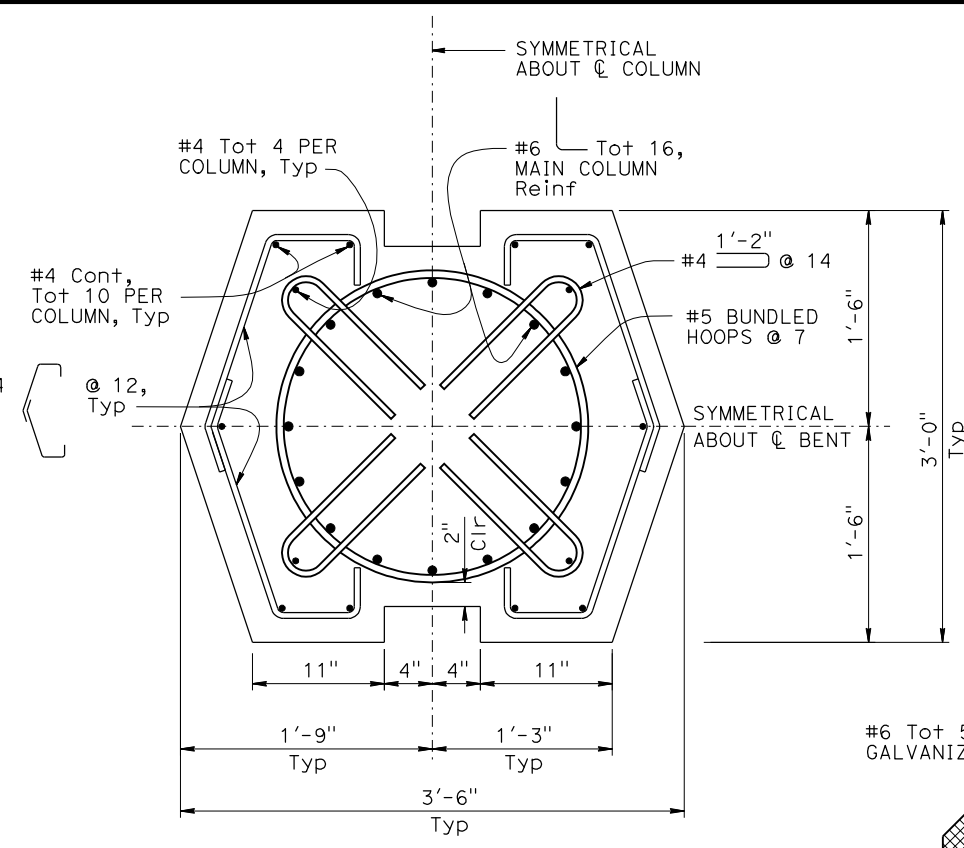
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY



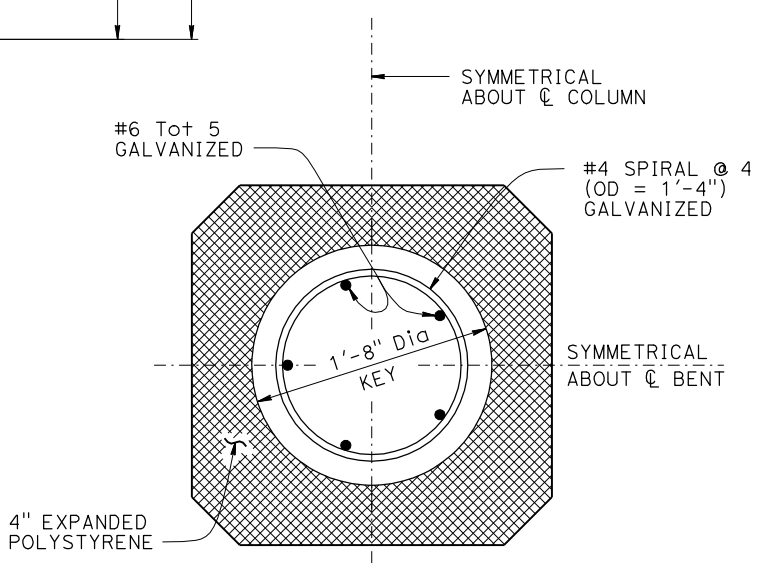
SECTION F-F
3/4" = 1'-0"



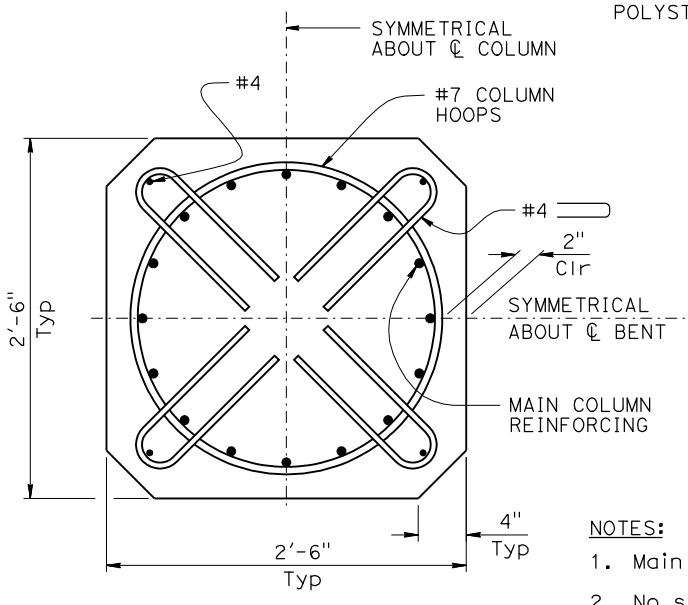
FOOTING PLAN
3/4" = 1'-0"



SECTION D-D
1 1/2" = 1'-0"



SECTION C-C
1 1/2" = 1'-0"



SECTION E-E
1 1/2" = 1'-0"

- NOTES:
1. Main footing reinforcement shall not be spliced.
 2. No splices allowed in main column reinforcement.
 3. All hoops shall be "Ultimate" butt spliced continuous.
 4. See "ARCHITECTURAL TREATMENT" sheets for additional details.

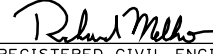
DESIGN	BY DAVID ALVAREZ	CHECKED HILARIO TUAZON
DETAILS	BY SUSAN NG	CHECKED DON NGUYEN-TAN
QUANTITIES	BY DON NGUYEN-TAN	CHECKED HILARIO TUAZON

STATE OF
CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO.	42C0669	G STREET OVERCROSSING BENT DETAILS NO. 2
POST MILE		

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre				

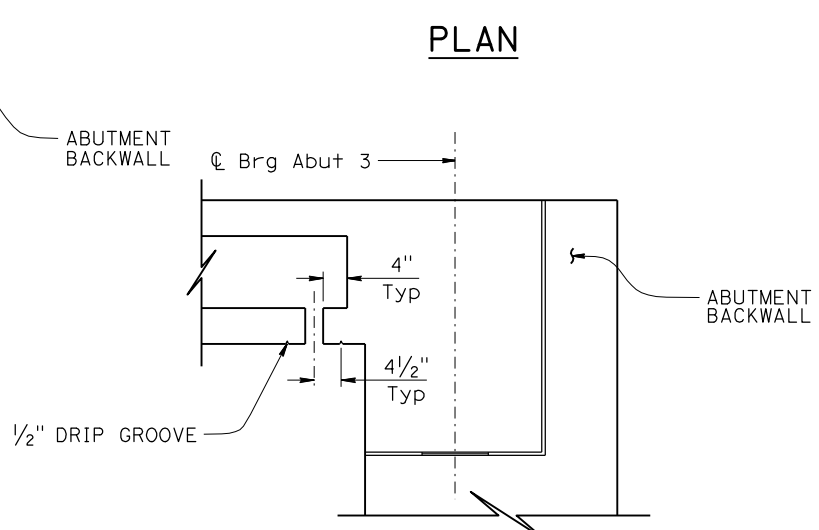
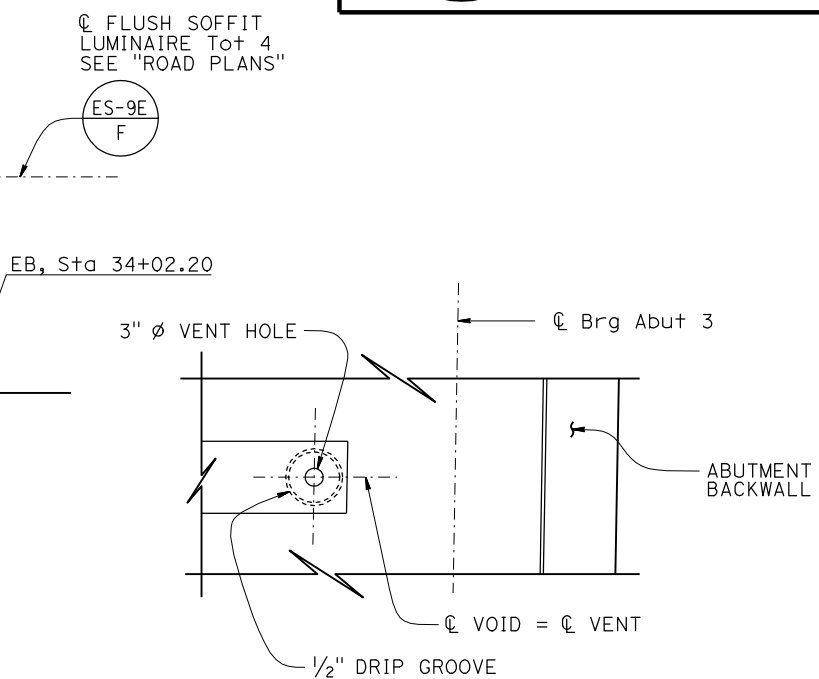
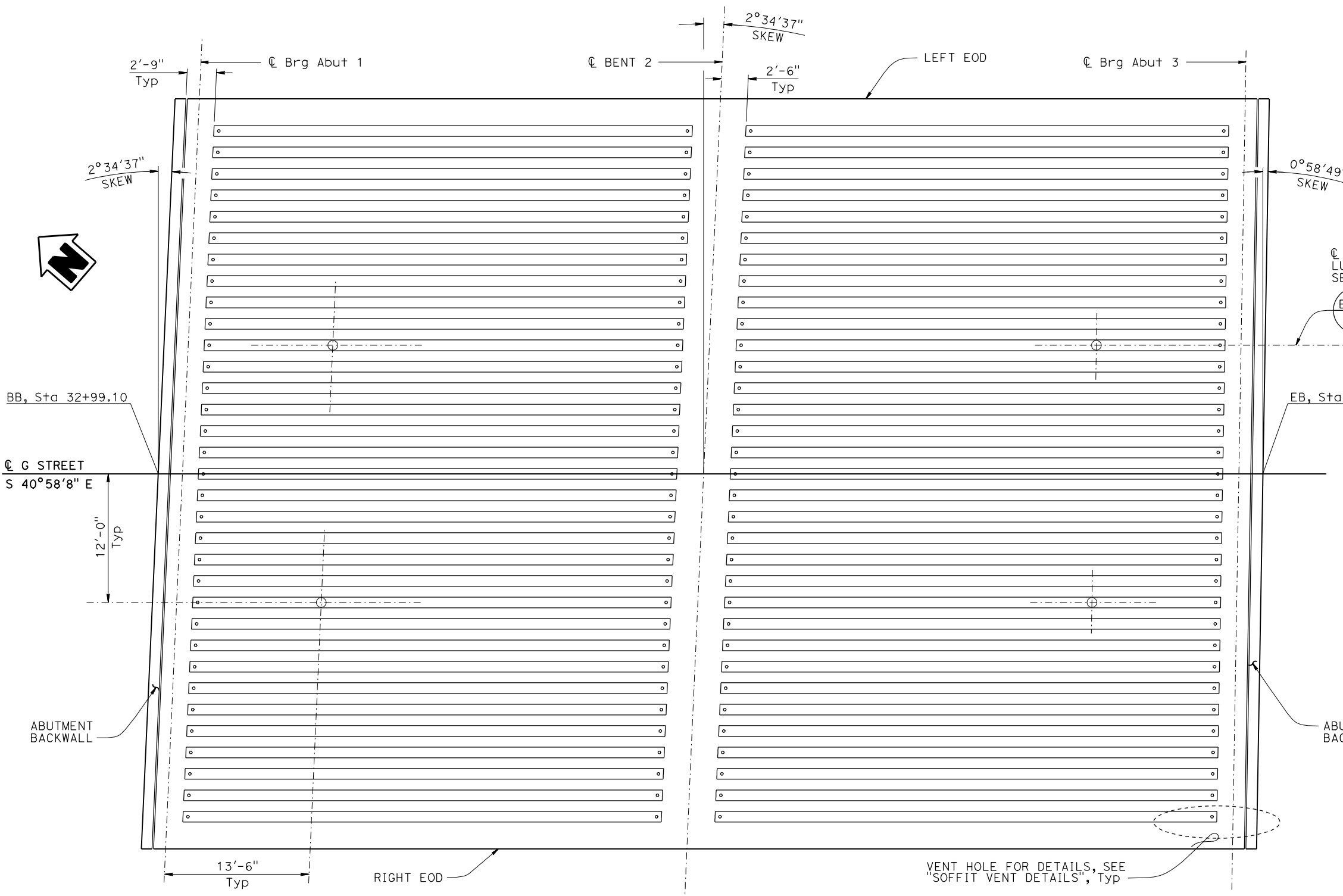

REGISTERED CIVIL ENGINEER

05-30-12
DATE

REGISTERED PROFESSIONAL ENGINEER
RICHARD MELKO
No. C 61617
Exp. 06/30/13
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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VOID LAYOUT
3/16" = 1'-0"

ELEVATION
SOFFIT VENT DETAIL
1" = 1'-0"

DESIGN	BY DAVID ALVAREZ	CHECKED HILARIO TUAZON
DETAILS	BY SUSAN NG	CHECKED DON NGUYEN-TAN
QUANTITIES	BY DON NGUYEN-TAN	CHECKED HILARIO TUAZON

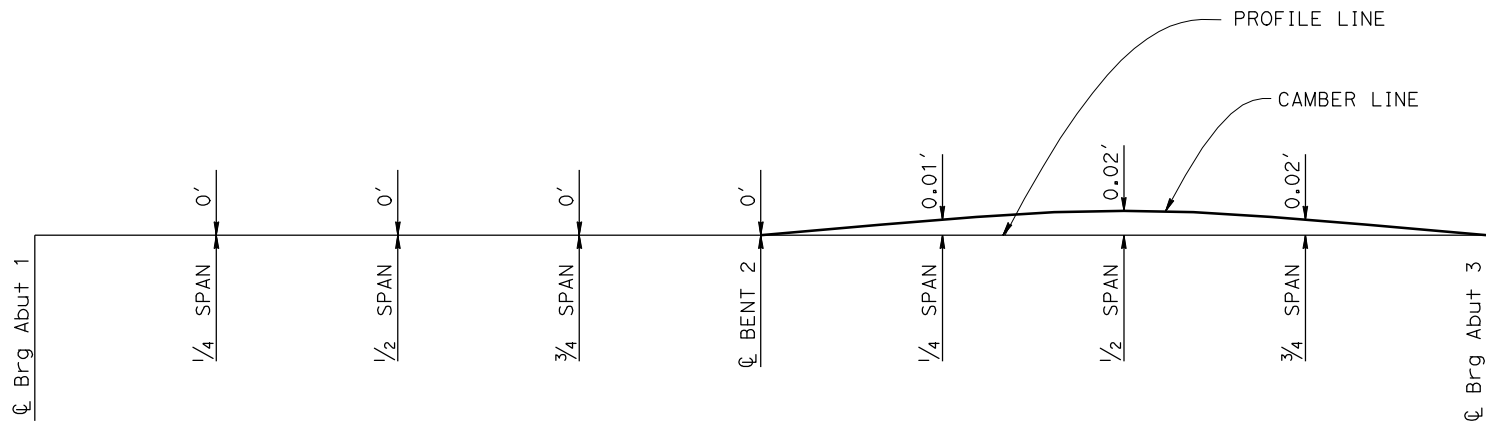
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO.
42C0669
POST MILE

G STREET OVERCROSSING SLAB DETAILS

FILE => 42c0669-1-slab-det.dgn



DOES NOT INCLUDE ALLOWANCE FOR FALSEWORK SETTLEMENT

CAMBER DIAGRAM
NO SCALE

PRESTRESSING NOTES

270 KSI Low Relaxation Strand:

P_{jack} = 7500 kips

Anchor Set = 0.37 in

Total Number of Ducts = 32

Distribution of prestress force (P_{jack}) between Ducts shall not exceed the ratio of 3:2.

Concrete: f'_c = 5000 psi @ 28 days

f'_{ci} = 3500 psi @ time of stressing

Contractor shall submit elongation calculations based on initial stress at

ϵ = 0.9342 times jacking stress.

One end stressing shall be performed from Abutment 3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre				

Richard Melko
REGISTERED CIVIL ENGINEER

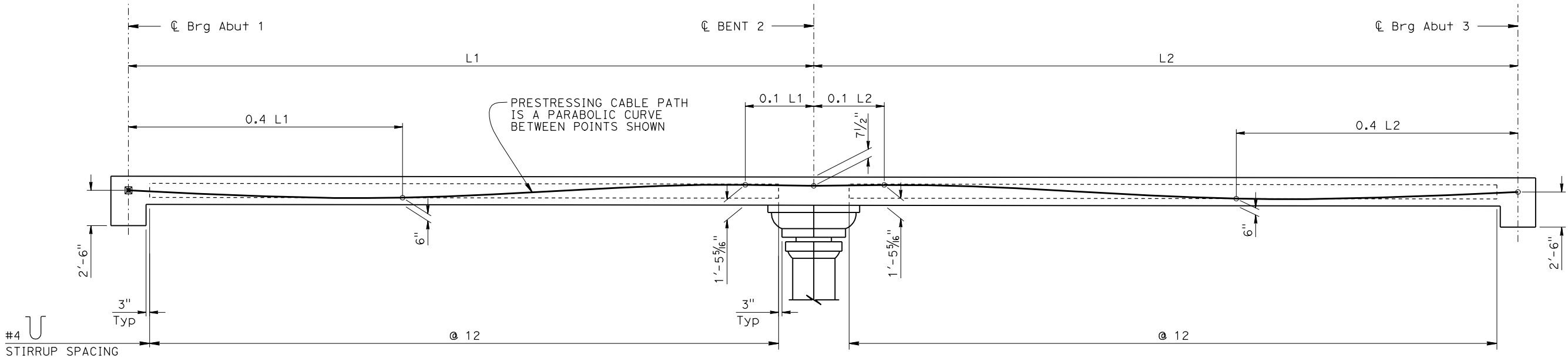
05-30-12
DATE

REGISTERED PROFESSIONAL ENGINEER
RICHARD MELKO
No. C 61617
Exp. 06/30/13
CIVIL
STATE OF CALIFORNIA

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Note:

■ Indicates theoretical point of no movement for one end stressing

LONGITUDINAL SECTION
1/4" = 1'-0"

DESIGN	BY DAVID ALVAREZ	CHECKED HILARIO TUAZON
DETAILS	BY SUSAN NG	CHECKED DON NGUYEN-TAN
QUANTITIES	BY DON NGUYEN-TAN	CHECKED HILARIO TUAZON

STATE OF
CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO.
42C0669
POST MILE

G STREET OVERCROSSING
LONGITUDINAL SECTION

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES
FOR REDUCED PLANS

0 1 2 3

UNIT: 3591 CONTRACT NO.: 06-2HT01
PROJECT NO. & PHASE: 0612000239-1

CHSTP CONTRACT NO.

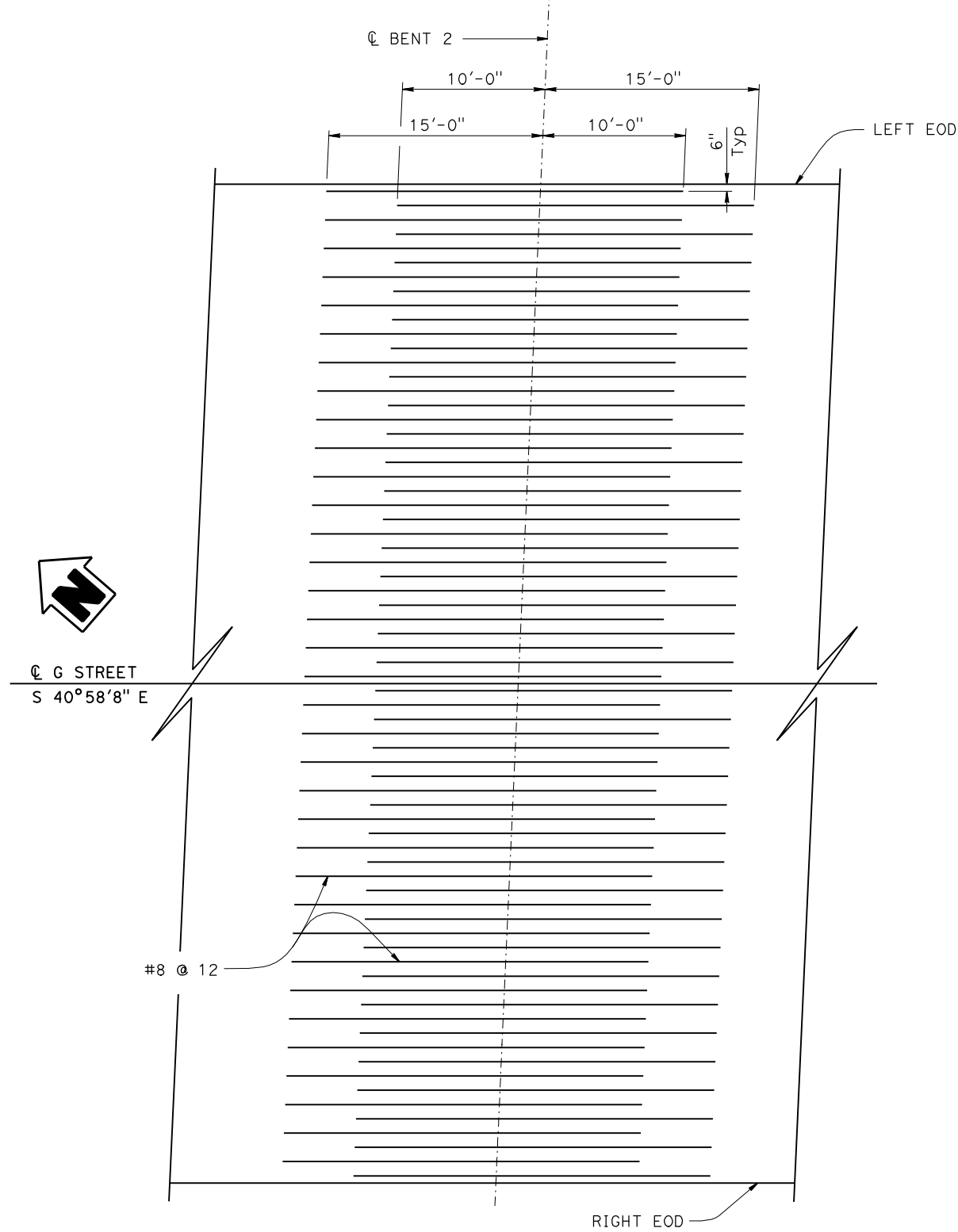
DISREGARD PRINTS BEARING
EARLIER REVISION DATES

REVISION DATES

SHEET 17 OF 35

FILE => 42c0669-m-long-sect.dgn

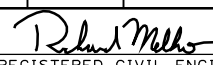
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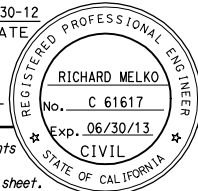
NOTE:
No splices are allowed in additional top slab reinforcing

ADDITIONAL TOP SLAB REINFORCEMENT
 $\frac{3}{16}'' = 1'-0''$

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre				



REGISTERED CIVIL ENGINEER

05-30-12
DATE



PLANS APPROVAL DATE

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HIGH-SPEED RAIL AUTHORITY

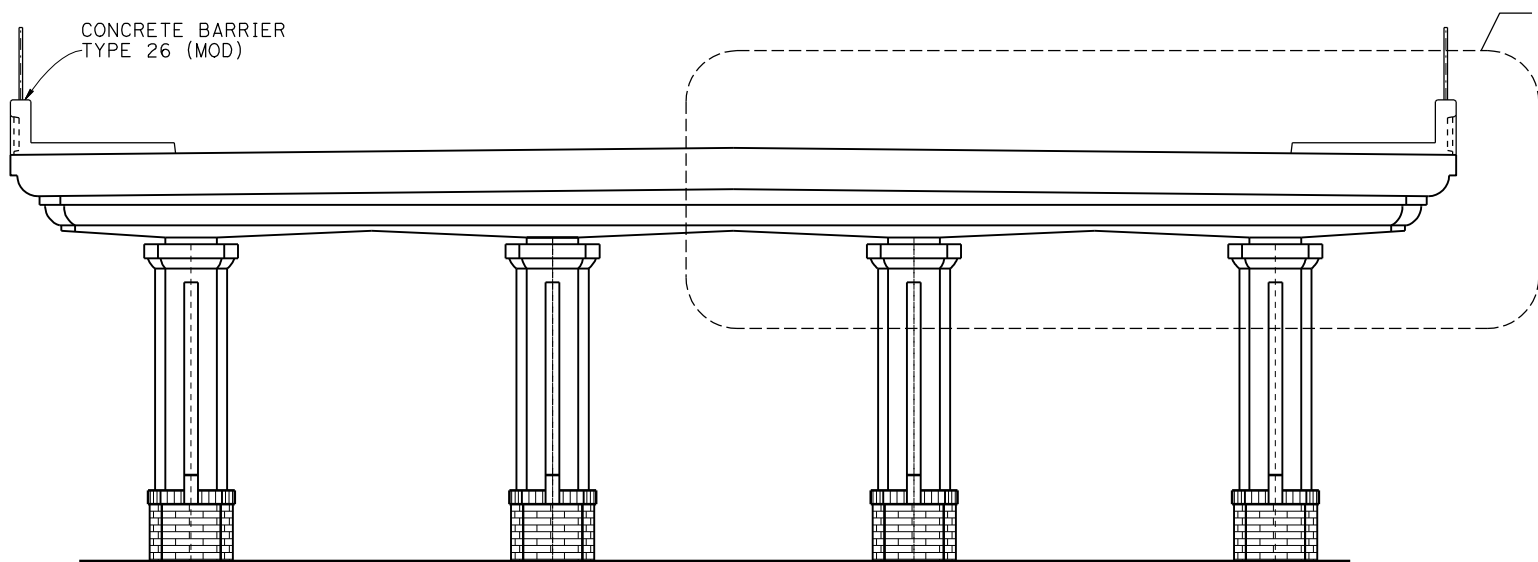
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DETAILS	BY SUSAN NG	CHECKED DON NGUYEN-TAN
QUANTITIES	BY DON NGUYEN-TAN	CHECKED HILARIO TUAZON

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DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

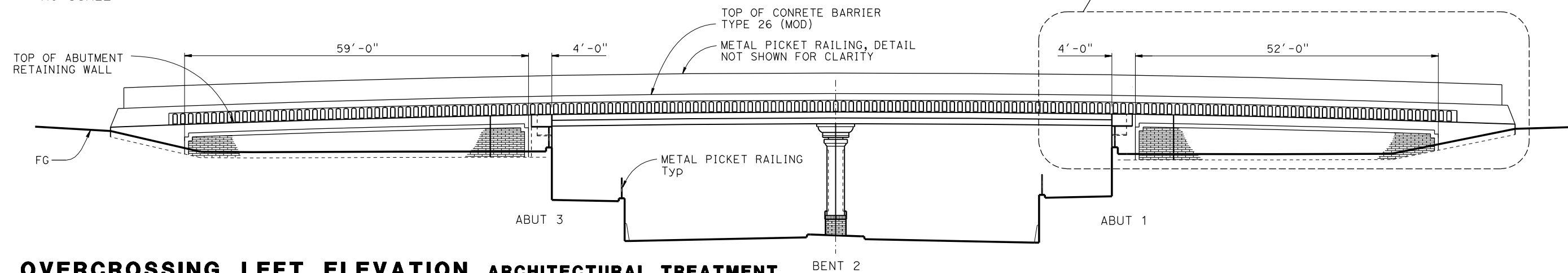
BRIDGE NO.
42C0669
POST MILE

**G STREET OVERCROSSING
TOP SLAB REINFORCEMENT**



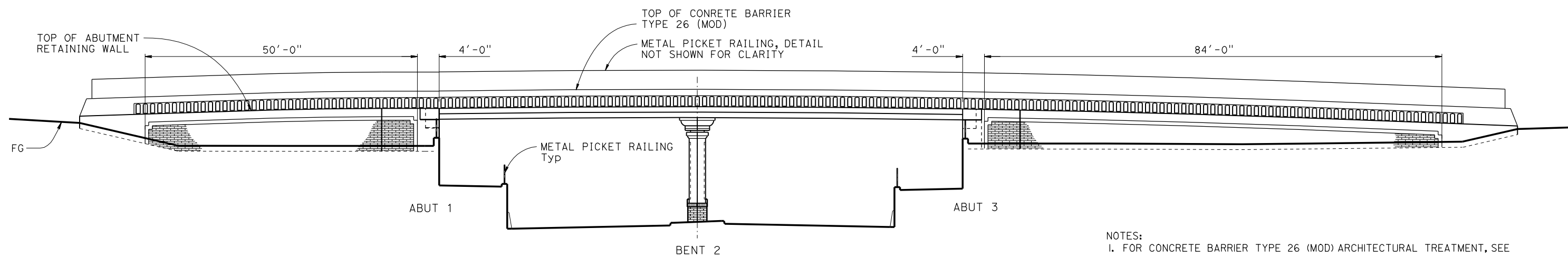
BENT 2 ELEVATION - ARCHITECTURAL TREATMENT

NO SCALE



G ST OVERCROSSING LEFT ELEVATION ARCHITECTURAL TREATMENT

NO SCALE



G ST OVERCROSSING RIGHT ELEVATION ARCHITECTURAL TREATMENT

NO SCALE

- NOTES:
1. FOR CONCRETE BARRIER TYPE 26 (MOD) ARCHITECTURAL TREATMENT, SEE "ARCHITECTURAL TREATMENT NO. 7" SHEET.
 2. FOR METAL PICKET RAILING, SEE "ARCHITECTURAL TREATMENT NO. 8" SHEET.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre				

Richard Melko
REGISTERED CIVIL ENGINEER
DATE 05-30-12

PLANS APPROVAL DATE

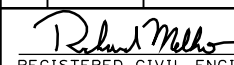
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RICHARD MELKO
No. C 61617
Exp. 06/30/13
CIVIL
STATE OF CALIFORNIA

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

	DESIGN	BY DAVID ALVAREZ	CHECKED HILARIO TUAZON	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO.	G STREET OVERCROSSING										
	DETAILS	BY ISAAC TASABIA	CHECKED RICHARD MELKO			42C0669	ARCHITECTURAL TREATMENT NO. 1										
	QUANTITIES	BY DON NGUYEN-TAN	CHECKED HILARIO TUAZON			POST MILE											
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		UNIT: 3591 CONTRACT NO.: 06-2HT201 PROJECT NO. & PHASE: 0612000239-1		CHSTP CONTRACT NO.		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES		SHEET OF	
						FILE => 42c0669-u-archdt01.dgn						05-30-12				20 35	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre				


REGISTERED CIVIL ENGINEER

05-30-12
DATE

REGISTERED PROFESSIONAL ENGINEER

RICHARD MELKO

No. C 61617

Exp. 06/30/13

CIVIL

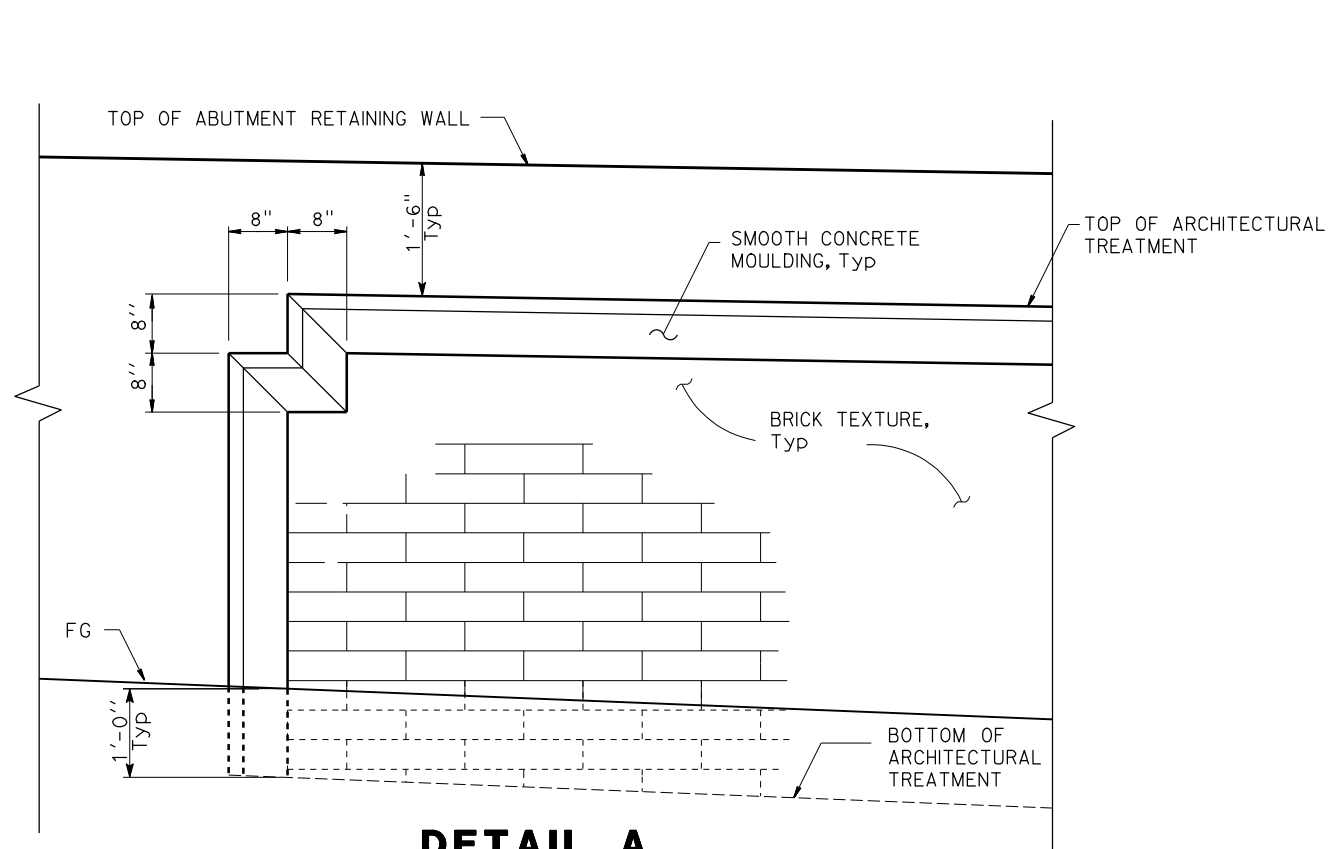
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY



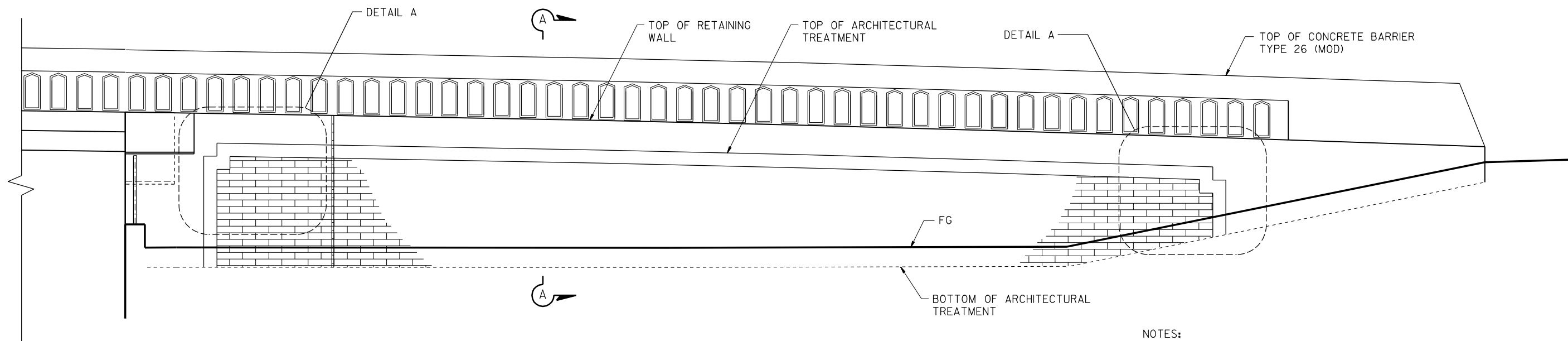
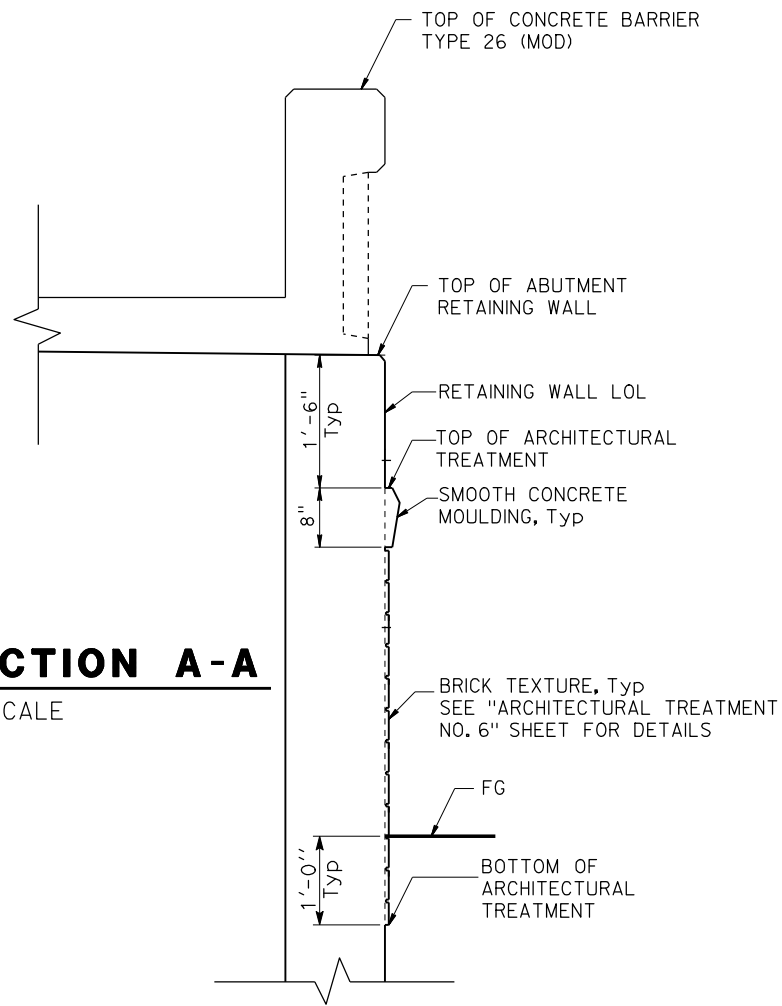
DETAIL A

NO SCALE

NOTE: RIGHT SIDE SHOWN, LEFT SIDE SIMILAR

SECTION A-A

NO SCALE



ABUTMENT RETAINING WALL ELEVATION

NO SCALE

NOTE: RETAINING WALL ABUTMENT I LEFT SHOWN, OTHER ABUTMENT RETAINING WALLS SIMILAR

- NOTES:
- FOR CONCRETE BARRIER TYPE 26 (MOD), SEE "ARCHITECTURAL TREATMENT NO. 7" SHEET.
 - METAL PICKET RAILING NOT SHOWN FOR CLARITY, SEE "ARCHITECTURAL TREATMENT NO. 8" FOR DETAILS.

	DESIGN	BY DAVID ALVAREZ	CHECKED HILARIO TUAZON	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO.	G STREET OVERCROSSING																		
	DETAILS	BY ISAAC TASABIA	CHECKED RICHARD MELKO			42C0669	ARCHITECTURAL TREATMENT NO. 2																		
	QUANTITIES	BY DON NGUYEN-TAN	CHECKED HILARIO TUAZON			POST MILE																			
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3				UNIT: 3591 CONTRACT NO.: 06-2HT201 PROJECT NO. & PHASE: 0612000239-1				CHSTP CONTRACT NO.		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES				SHEET OF	
																				05-30-12				21 35	

USERNAME => s120745 DATE PLOTTED => 30-MAY-2012 TIME PLOTTED => 16:34

1. FOR CONCRETE BARRIER TYPE 26 (MOD), SEE "ARCHITECTURAL TREATMENT NO. 7" SHEET.
2. FOR METAL PICKET RAILING, SEE "ARCHITECTURAL TREATMENT NO. 8" FOR DETAILS.



NO SCALE



NO SCALE



NO SCALE

STATE OF
CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6**

BRIDGE NO.
42C0669
POST MILE

G STREET OVERCROSSING ARCHITECTURAL TREATMENT NO. 3

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES
FOR REDUCED PLANS

UNIT: 3591 CONTRACT NO.: 06-2HT201
PROJECT NO. & PHASE: 0612000239-1

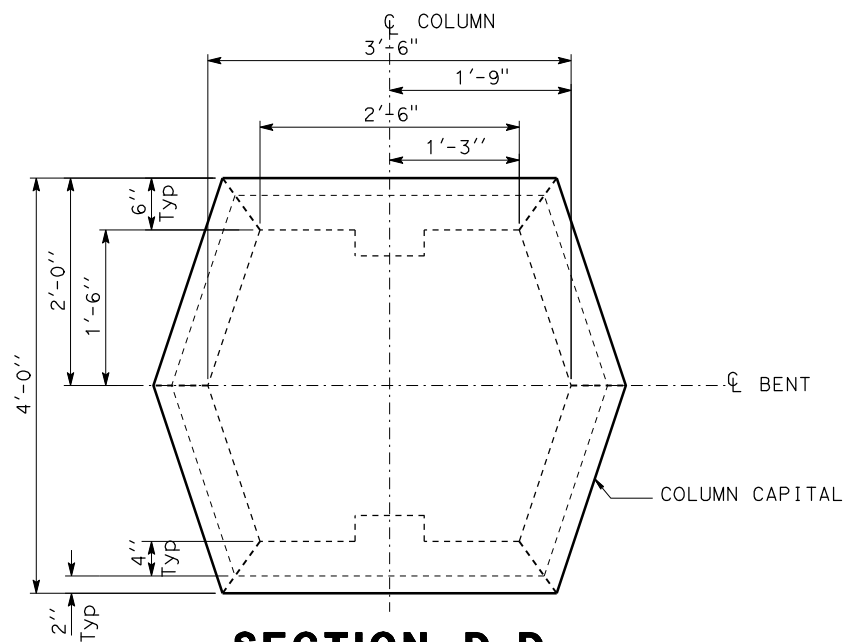
CHSTP CONTRACT NO.

DISREGARD PRINTS BEARING
EARLIER REVISION DATES

REVISION DATES		

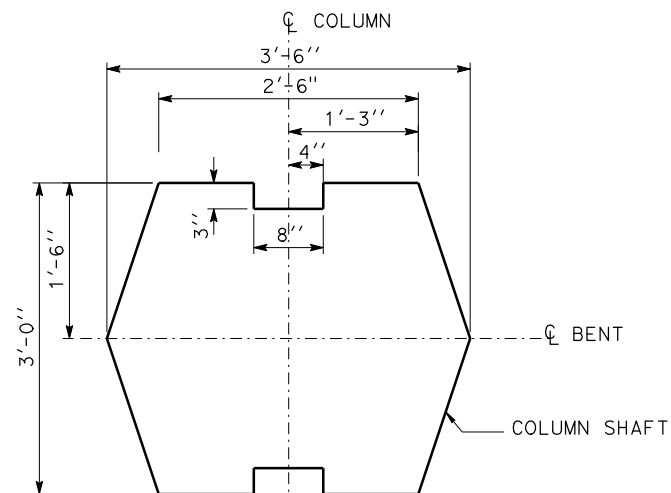
SHEET	OF
22	35

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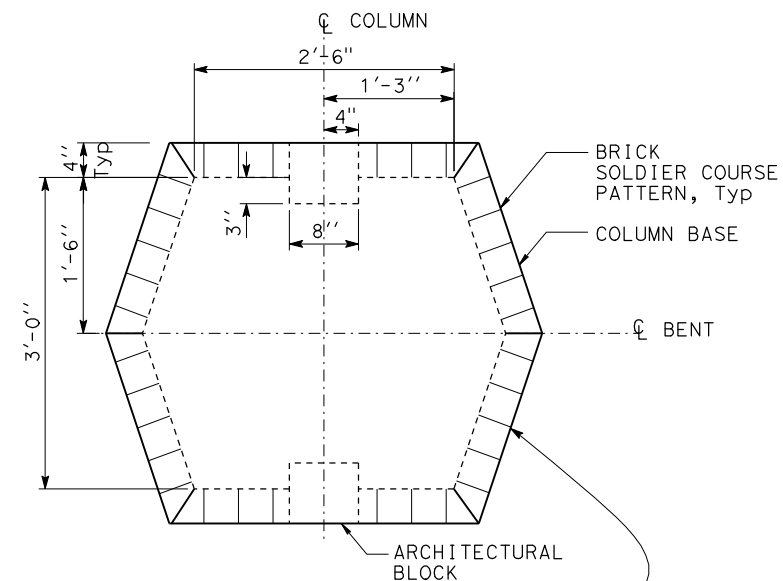
SECTION D-D

NO SCALE



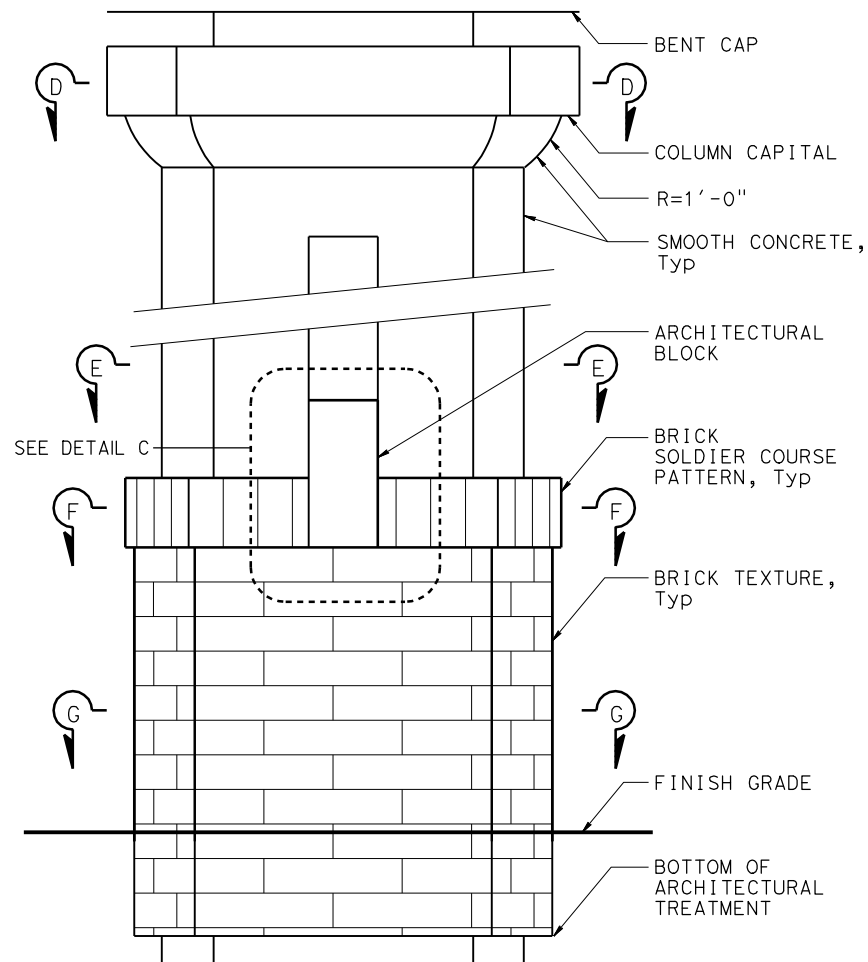
SECTION E-E

NO SCALE



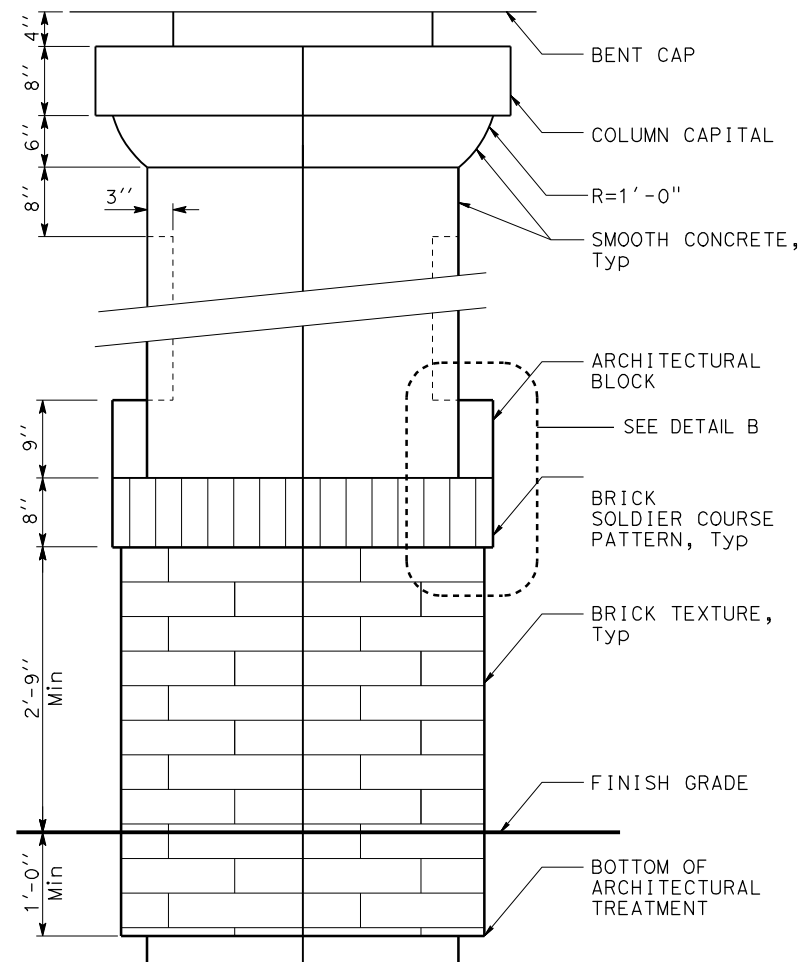
SECTION F-F

NO SCALE



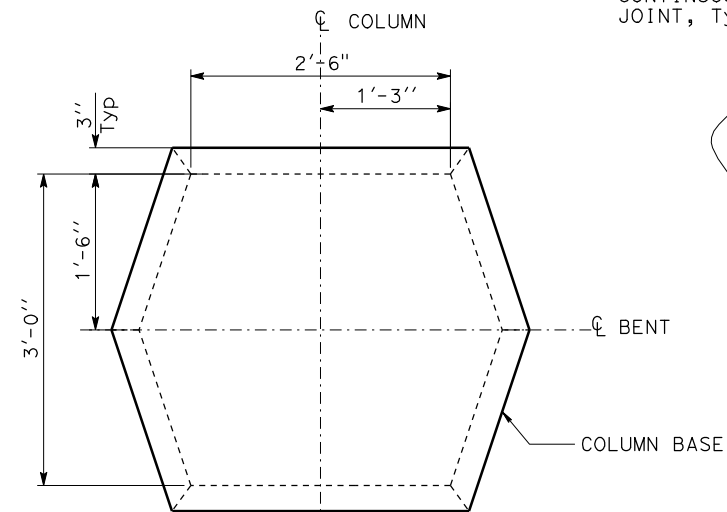
SIDE VIEW - COLUMN

NO SCALE



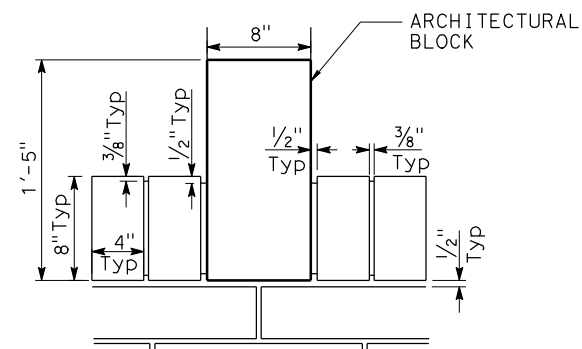
FRONT VIEW - COLUMN

NO SCALE



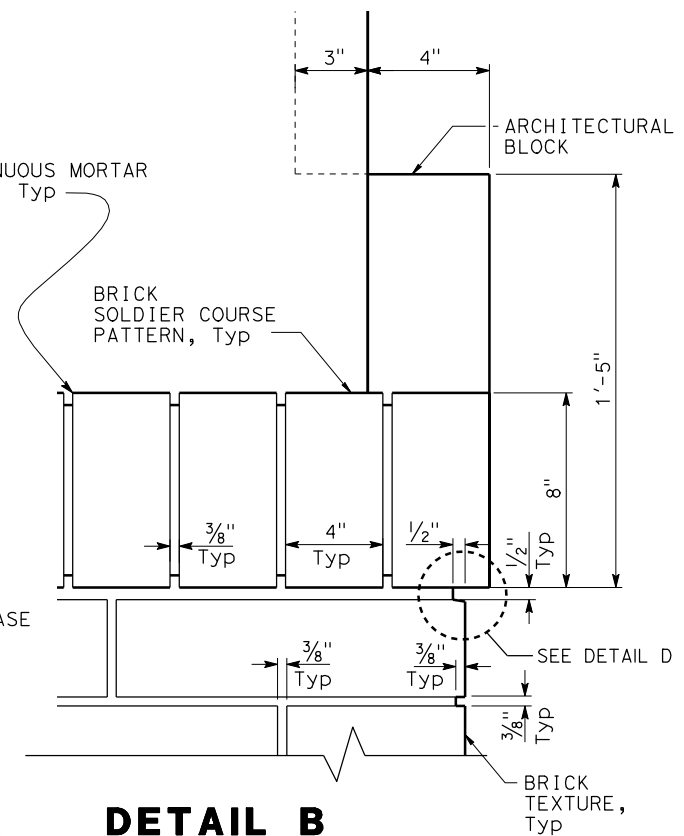
SECTION G-G

NO SCALE



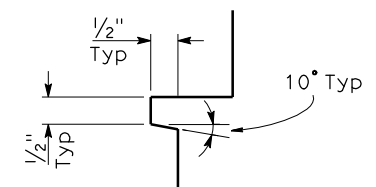
DETAIL C

NO SCALE



DETAIL B

NO SCALE



DETAIL D

NO SCALE

NOTE:
For brick texture, see "ARCHITECTURAL TREATMENT NO. 6" sheet.

DIST	COUNTY	ROUTE	POST MILES	SHEET	TOTAL
06	Fre				

05-30-12
DATE

REGISTERED CIVIL ENGINEER
RICHARD MELKO
No. C 61617
Exp. 06/30/13
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

DESIGN	BY DAVID ALVAREZ	CHECKED HILARIO TUAZON	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO.	G STREET OVERCROSSING ARCHITECTURAL TREATMENT NO. 4
DETAILS	BY ISAAC TASABIA	CHECKED RICHARD MELKO			42C0669	
QUANTITIES	BY DON NGUYEN-TAN	CHECKED HILARIO TUAZON			POST MILE	

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3591 CONTRACT NO.: 06-2HT201
PROJECT NO. & PHASE: 0612000239-1

CHSTP CONTRACT NO.

DISREGARD PRINTS BEARING EARLIER REVISION DATES

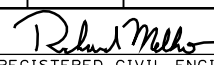
REVISION DATES

SHEET 23 OF 35

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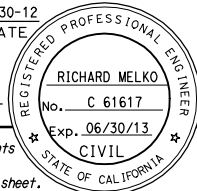
NOTES:
1. RETAINING WALLS NOT SHOWN, SEE RETAINING WALL PLANS.
2. METAL PICKET RAILING NOT SHOWN FOR CLARITY, SEE "ARCHITECTURAL TREATMENT NO. 8" FOR DETAILS.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre				



REGISTERED CIVIL ENGINEER

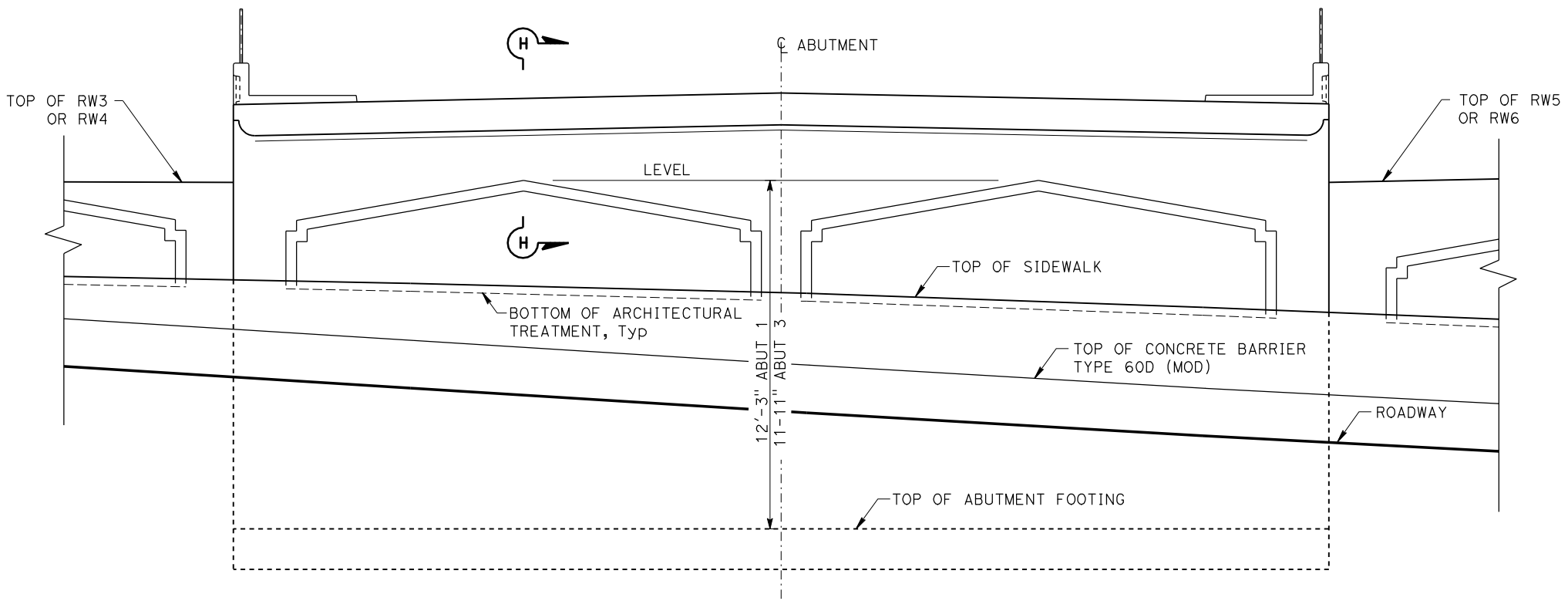
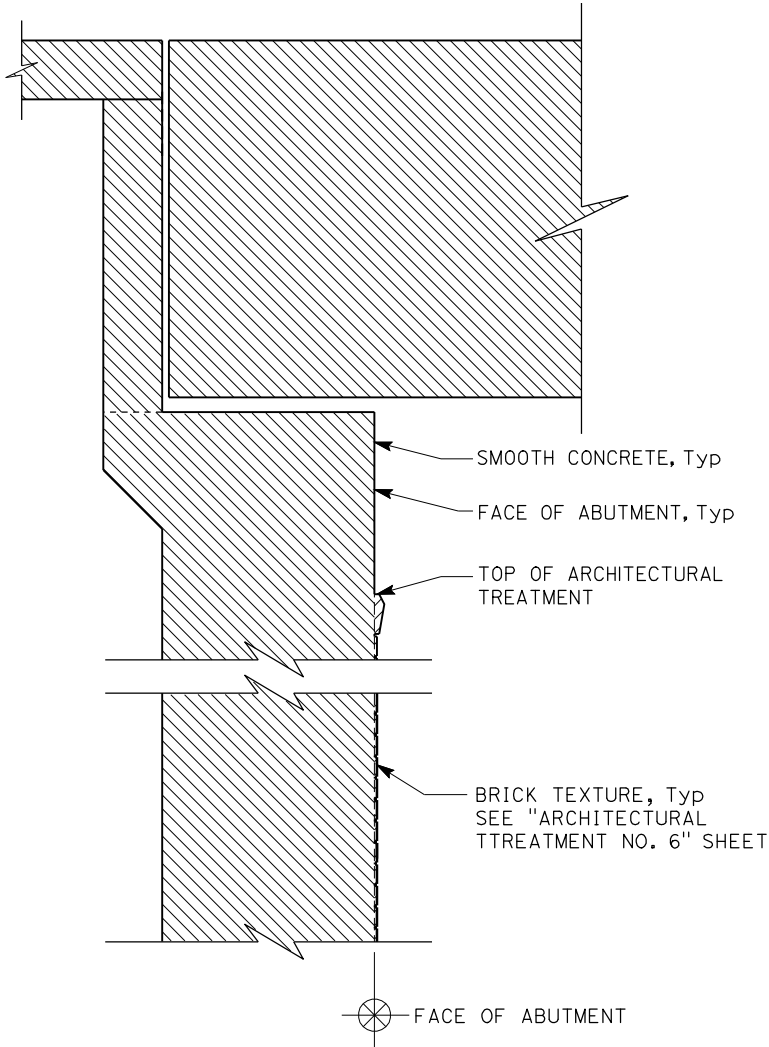
05-30-12
DATE

PLANS APPROVAL DATE



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 **CALIFORNIA**
HIGH-SPEED RAIL AUTHORITY



SECTION H-H
NO SCALE

TYPICAL ABUTMENT ELEVATION
NO SCALE

DESIGN	BY DAVID ALVAREZ	CHECKED HILARIO TUAZON
DETAILS	BY ISAAC TASABIA	CHECKED RICHARD MELKO
QUANTITIES	BY DON NGUYEN-TAN	CHECKED HILARIO TUAZON

STATE OF
CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO.
42C0669
POST MILE

G STREET OVERCROSSING
ARCHITECTURAL TREATMENT NO. 5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre				

Richard Melko
REGISTERED CIVIL ENGINEER

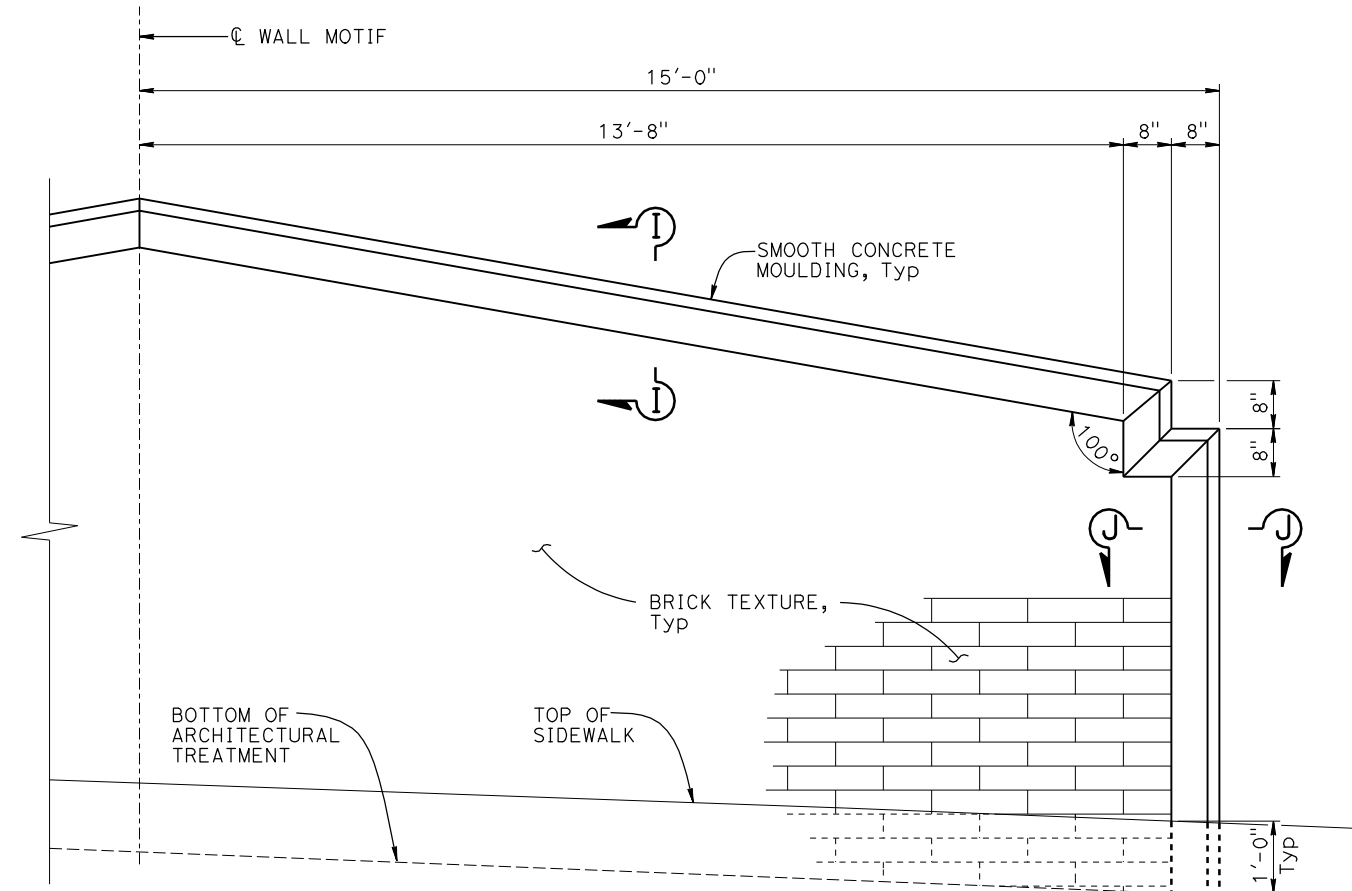
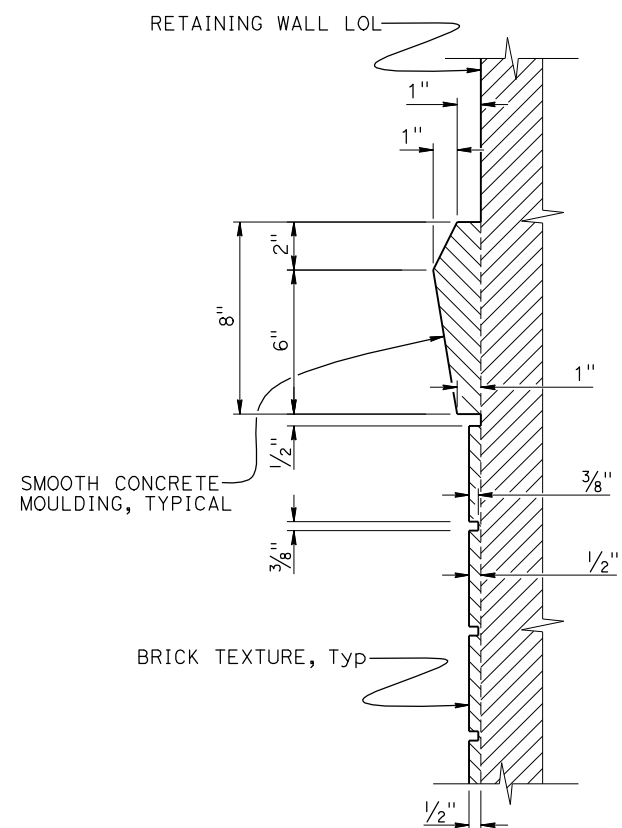
05-30-12
DATE

PLANS APPROVAL DATE

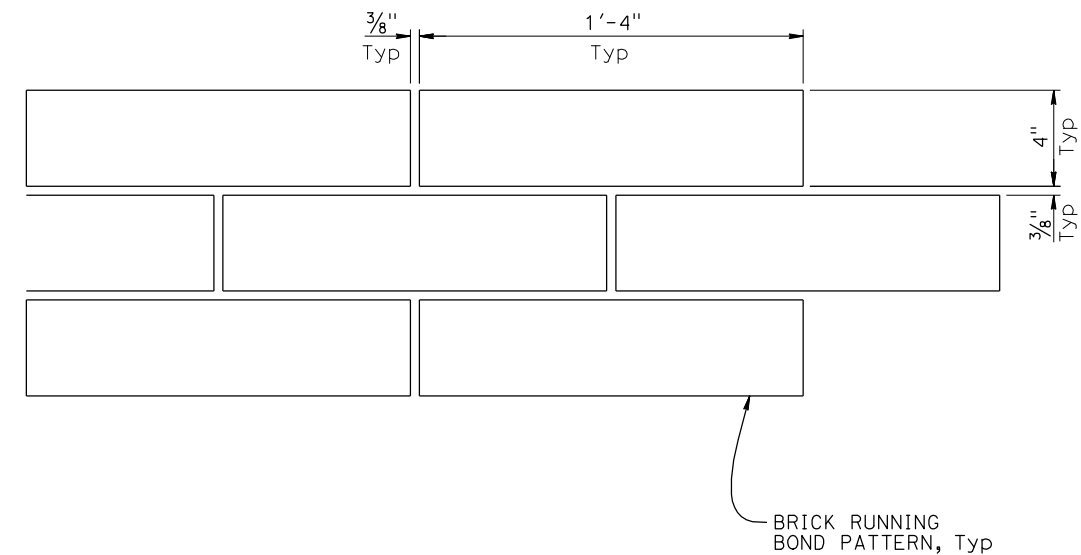
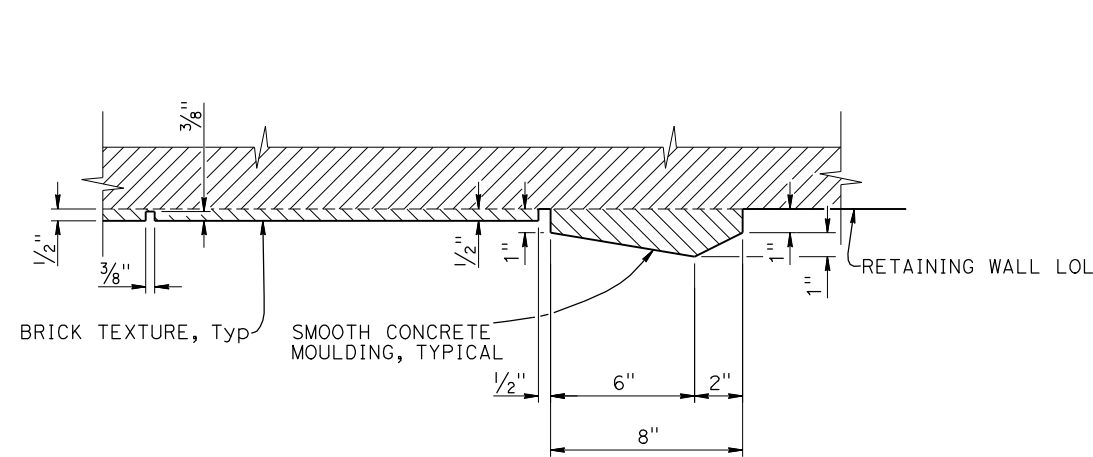
No. C 61617
Exp. 06/30/13
CIVIL

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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NOTE:
METAL PICKET RAIL NOT SHOWN FOR CLARITY,
SEE "ARCHITECTURAL TREATMENT NO. 8" SHEET.



DESIGN	BY M.G. REYES-GUTIERREZ	CHECKED HILARIO TUAZON
DETAILS	BY K. CHONKRIA	CHECKED DON NGUYEN-TAN
QUANTITIES	BY DON NGUYEN-TAN	CHECKED HILARIO TUAZON

STATE OF
CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6**

BRIDGE NO.
42C0669
POST MILE

G STREET OVERCROSSING ARCHITECTURAL TREATMENT NO. 6

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES
FOR REDUCED PLANS

UNIT: 3591 CONTRACT NO.: 06-2HT201
PROJECT NO. & PHASE: 0612000239-1

CHSTP CONTRACT NO.

DISREGARD PRINTS BEARING
EARLIER REVISION DATES

REVISION DATES				SHEET	OF
05-24-12	05-28-12			25	35

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DIST06COUNTYFreROUTEPOST MILESTOTAL PROJECT06SHEET No. TOTAL SHEETS

Richard Melko

REGISTERED CIVIL ENGINEER

05-30-12

DATE

REGISTERED PROFESSIONAL ENGINEER

RICHARD MELKO

No. C 61617


Exp. 06/30/13

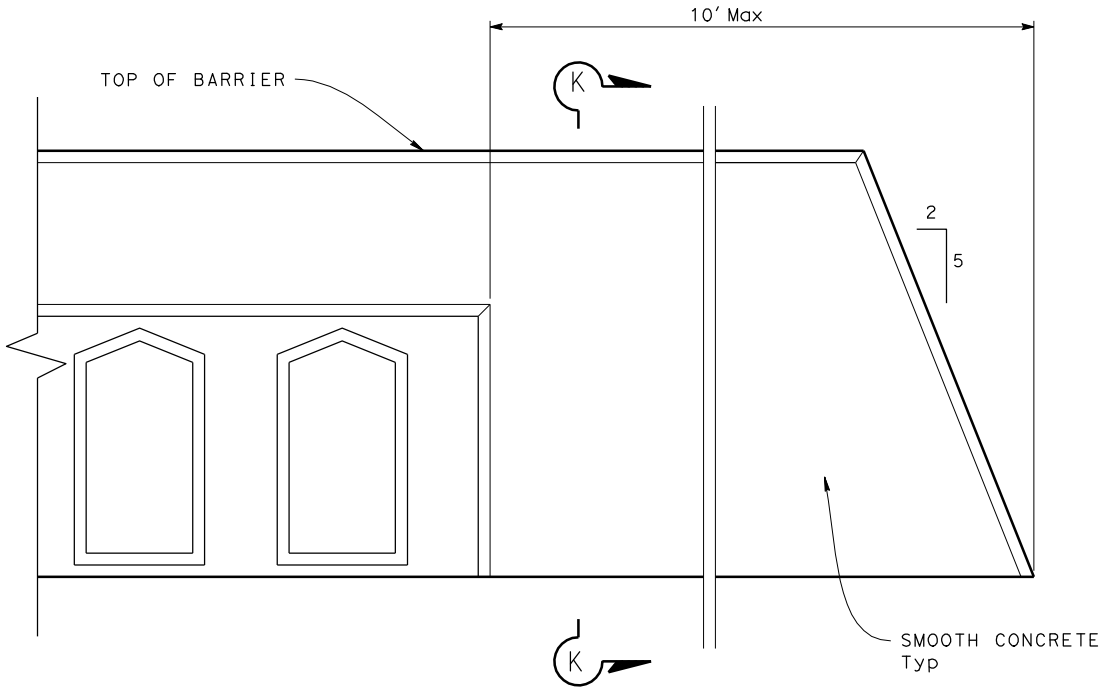
CIVIL

STATE OF CALIFORNIA

PLANS APPROVAL DATE

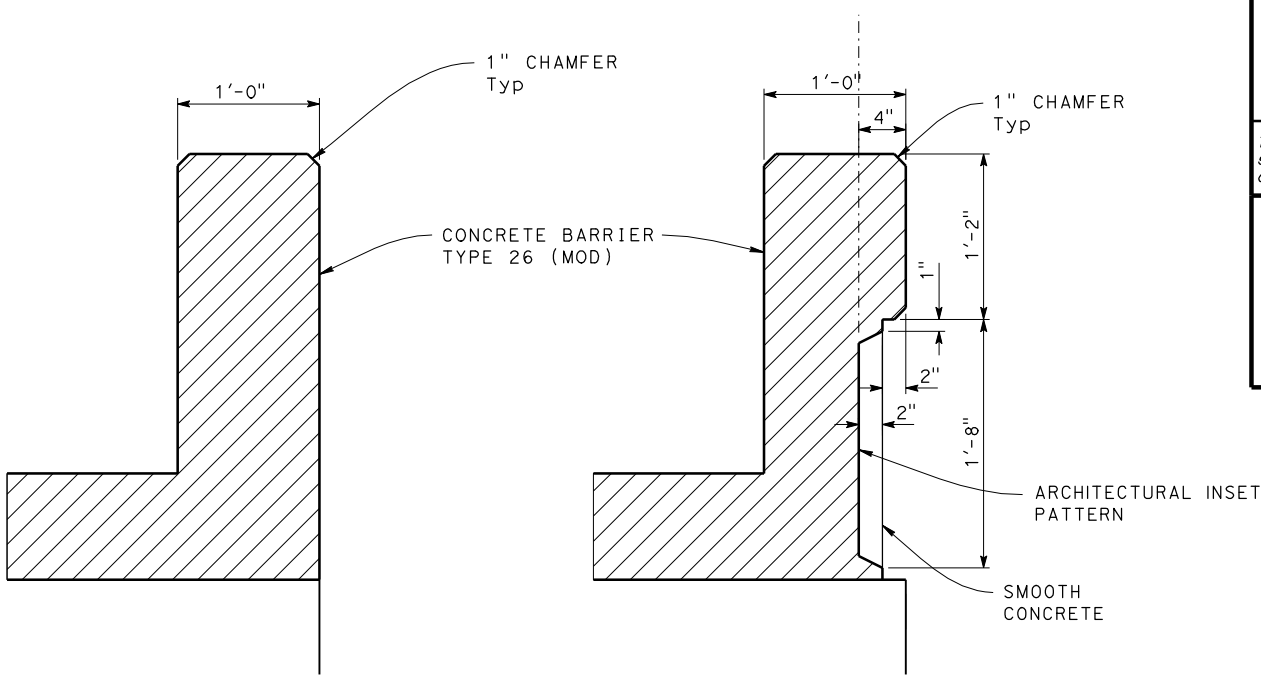
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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY



**CONCRETE BARRIER TYPE 26 (MOD)
END TREATMENT**

NO SCALE

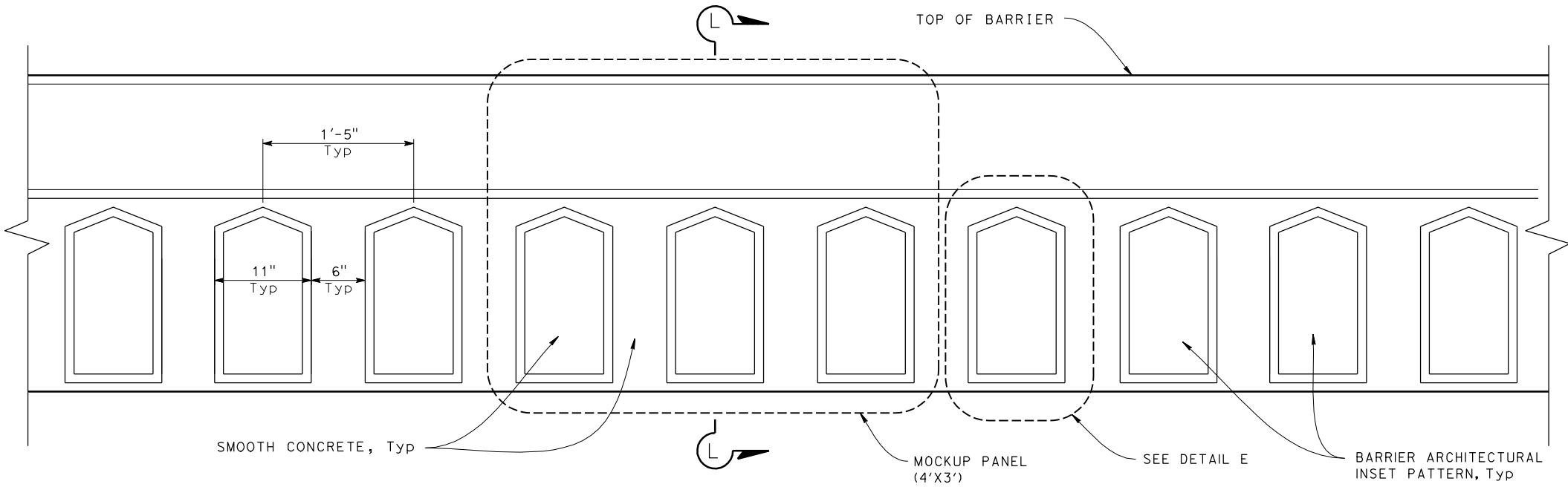


SECTION K-K

NO SCALE

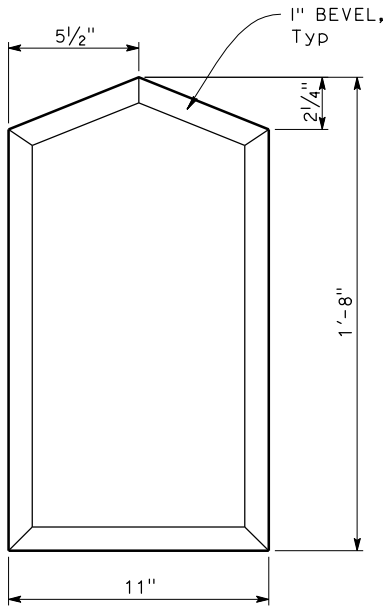
SECTION L-L

NO SCALE



CONCRETE BARRIER TYPE 26 (MOD) ARCHITECTURAL TREATMENT

NO SCALE



DETAIL E

NO SCALE

NOTE:
METAL PICKET RAILING NOT SHOWN FOR CLARITY, SEE "ARCHITECTURAL
TREATMENT NO. 8" SHEET.

DESIGN	BY DAVID ALVAREZ	CHECKED HILARIO TUAZON
DETAILS	BY ISAAC TASABIA	CHECKED RICHARD MELKO
QUANTITIES	BY DON NGUYEN-TAN	CHECKED HILARIO TUAZON

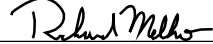
STATE OF
CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO.
42C0669
POST MILE

**G STREET OVERCROSSING
ARCHITECTURAL TREATMENT NO. 7**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre				


REGISTERED CIVIL ENGINEER

05-30-12
DATE

REGISTERED PROFESSIONAL ENGINEER

RICHARD MELKO

No. C 61617

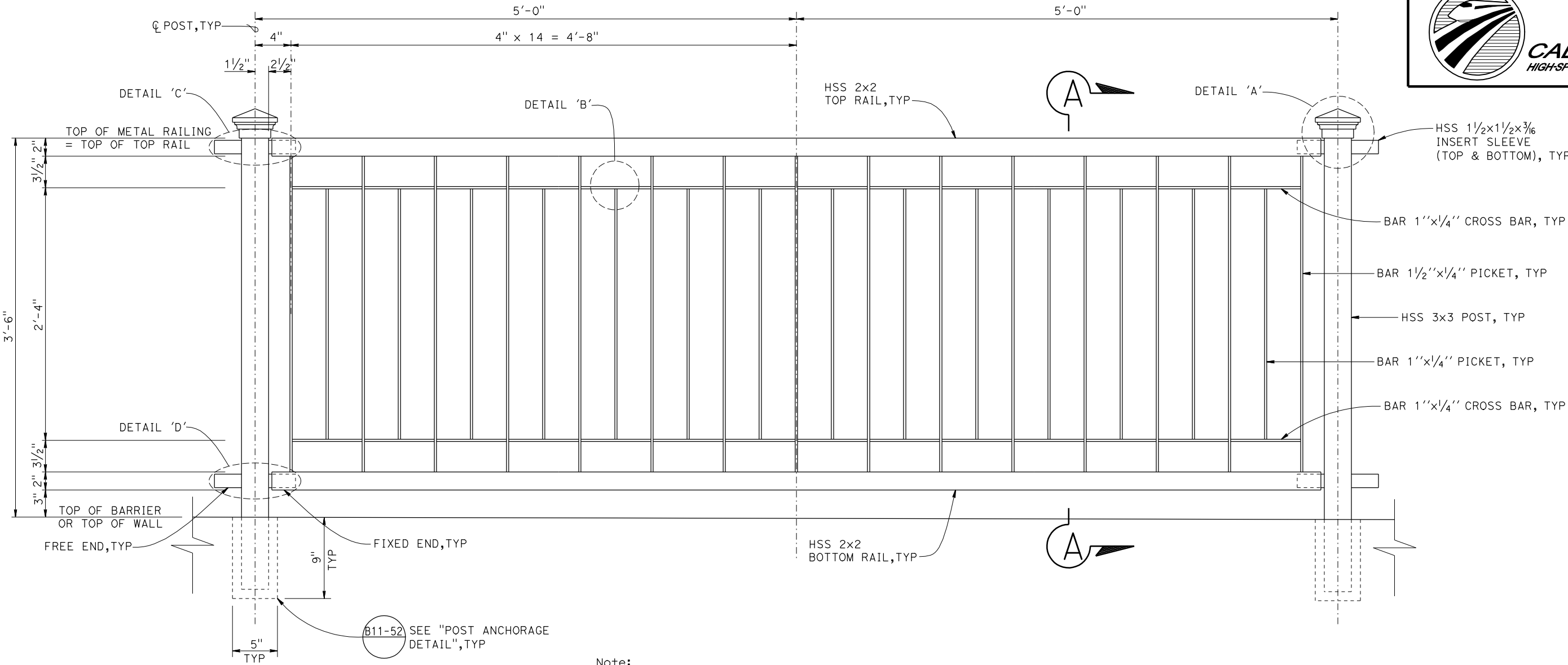
Exp. 06/30/13

CIVIL

STATE OF CALIFORNIA

PLANS APPROVAL DATE

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Note:
For Section A-A and Detail 'A', 'B', 'C' & 'D',
see "ARCHITECTURAL TREATMENT DETAILS NO. 9" sheet.

PARTIAL ELEVATION - METAL PICKET RAILING
2" = 1'-0"

DESIGN	BY FRITZ HOFFMAN	CHECKED RICH MELKO
DETAILS	BY PETE VON SAVOYE	CHECKED RICH MELKO
QUANTITIES	BY DON NGUYEN-TAN	CHECKED HILARIO TUAZON

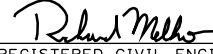
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO.	42C0667
POST MILE	

G STREET OVERCROSSING
ARCHITECTURAL TREATMENT DETAILS NO. 8

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre				


REGISTERED CIVIL ENGINEER

05-30-12
DATE

REGISTERED PROFESSIONAL ENGINEER

RICHARD MELKO

No. C 61617

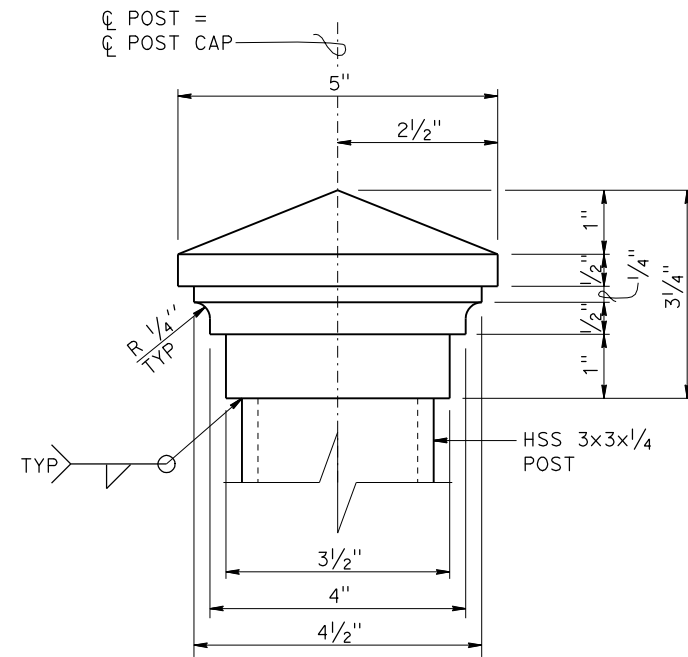
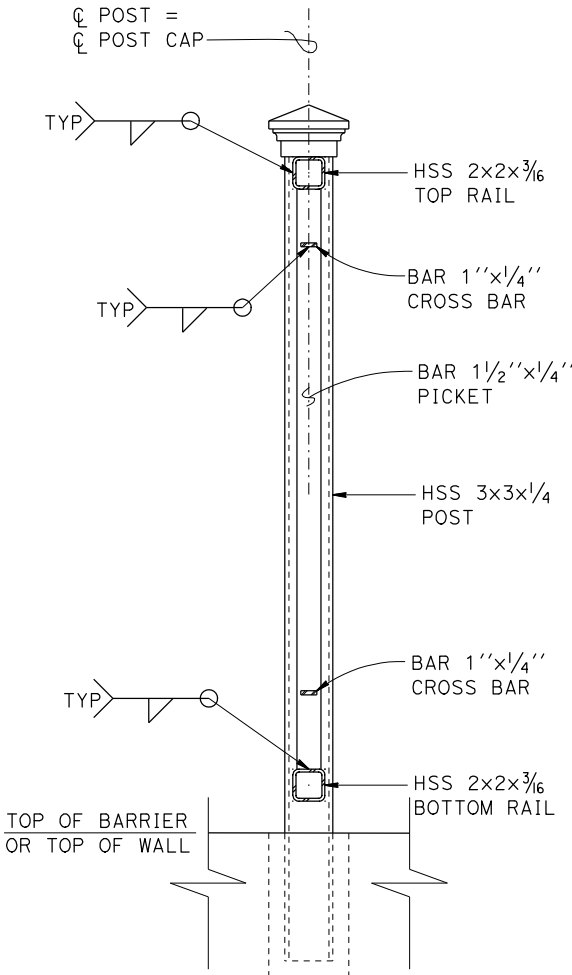
Exp. 06/30/13

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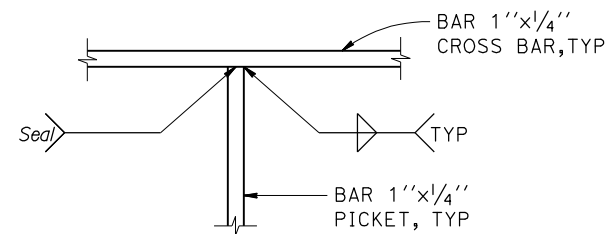
STATE OF CALIFORNIA

PLANS APPROVAL DATE

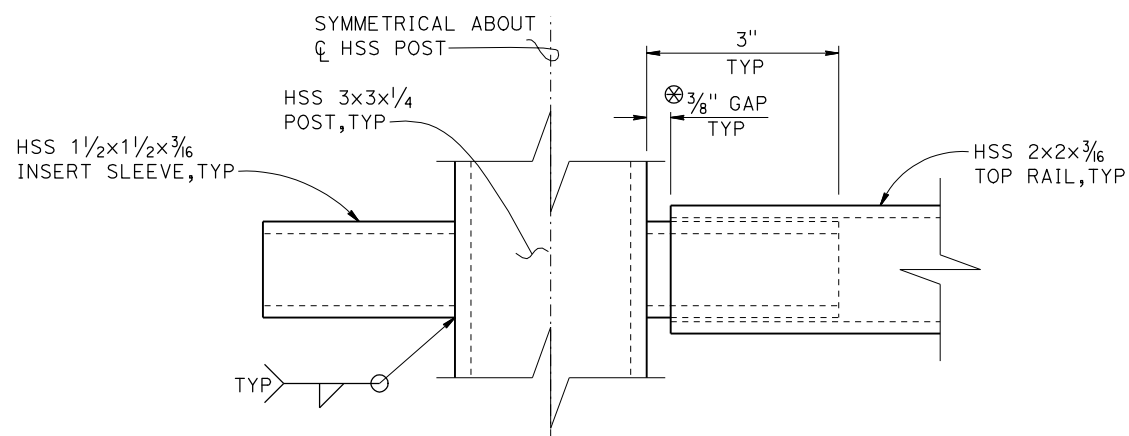
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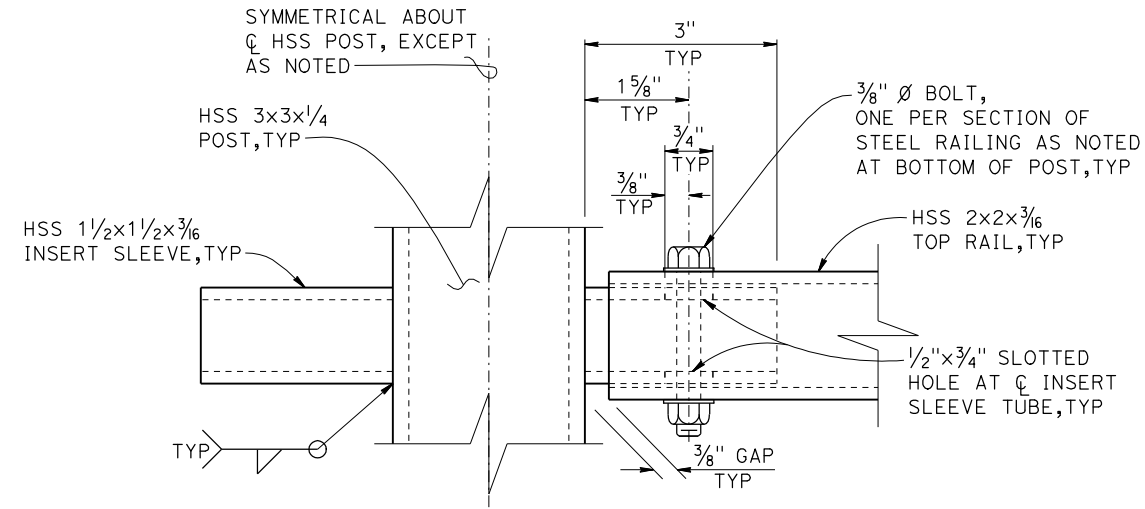
DETAIL 'A' - POST CAP
NO SCALE



DETAIL 'B'
NO SCALE



DETAIL 'C'
NO SCALE



FREE END

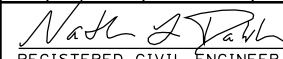
FIXED END

DETAIL 'D'
NO SCALE

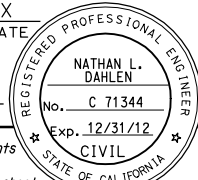
- Notes:
1. Embed post into post cap 1 1/2" minimum.
 2. Post cap fabrication by the Contractor as approved by the Engineer. Minimum material thickness 3/16".
 3. Post cap may be modified or substituted with pre-manufactured post cap by the Contractor as approved by the Engineer.
 4. Paint after fabrication.
 5. Posts shall be vertical, typical.
 6. The "Fixed End" of each metal picket railing section has one bolt at the bottom rail. The "Free End" does not have a bolt at the top or bottom rail, typical.
 7. Omit Insert Sleeve on the outside of each end post.
 8. Metal picket railing shall be 3/2" maximum clear from light posts mounted on top of concrete barrier type 26 (mod).

	DESIGN	BY FRITZ HOFFMAN	CHECKED RICH MELKO	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO.	G STREET OVERCROSSING										
	DETAILS	BY PETE VON SAVOYE	CHECKED RICH MELKO			42C0667	ARCHITECTURAL TREATMENT DETAILS NO. 9										
	QUANTITIES	BY DON NGUYEN-TAN	CHECKED HILARIO TUAZON			POST MILE											
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		UNIT: 3591 CONTRACT NO.: 06-2HT201 PROJECT NO. & PHASE: 0612000239-1		CHSTP CONTRACT NO.		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES		SHEET OF	
								FILE => 42c0669-u-grchdt09.dgn				05-30-12				28 35	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre				


REGISTERED CIVIL ENGINEER

X
DATE



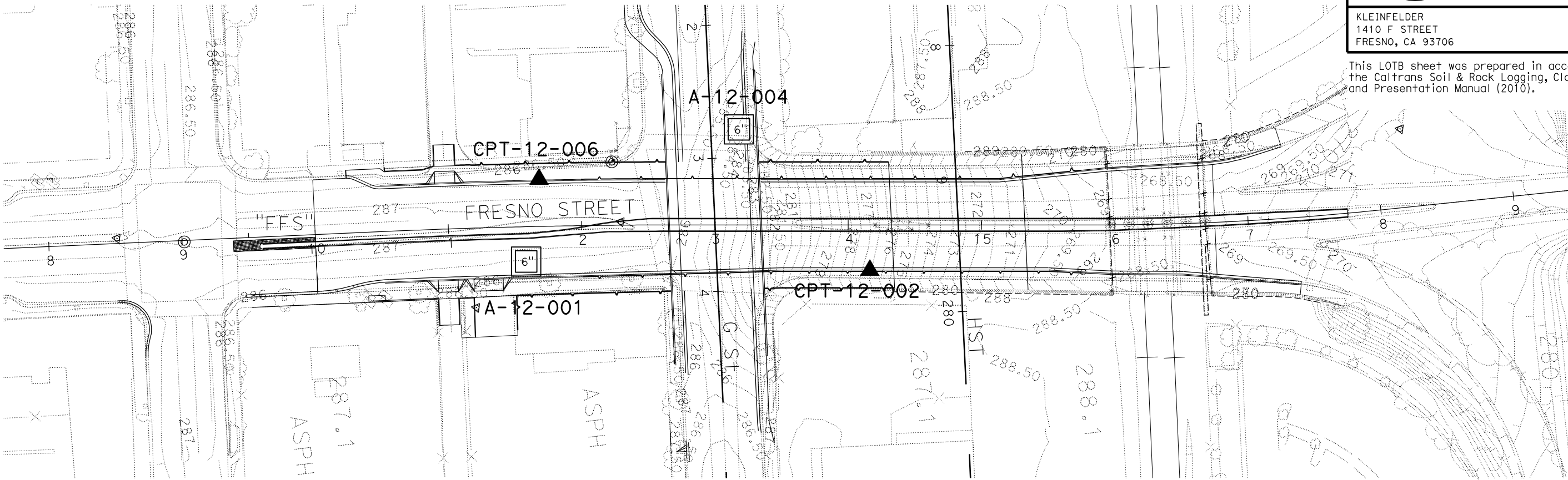
PLANS APPROVAL DATE

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KLEINFELDER
1410 F STREET
FRESNO, CA 93706

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (2010).



BENCHMARKS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

4-SON-116 FILE 01 OF 03
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MAP ASC: 0820-17 MAP COMPLETION DATE: 3-31-08
FILENAME: 408217e0501.dgn
DIGITAL COMPILATION BY:
RADMAN AERIAL SURVEYS

VERTICAL DATUM: NAVD 1988
COORDINATE SYSTEM: CCS 83 (1991.35) ZONE 2
UNITS: US SURVEY FEET MAP SCALE 1"= 50' CONTOUR INTERVAL: 1'
DESIGN PLANE: 32R GO= 6065251.6352,1767251.6352,-214748.3648

PLAN
1"=40'

Note:
1. - Marl M-10 truck mounted rig with automatic hammer.

DESIGN	BY DAVID ALVAREZ	CHECKED HILARIO TUAZON
DETAILS	BY AL SANCHEZ	CHECKED NATHAN DAHLEN
QUANTITIES	BY DON NGUYEN-TAN	CHECKED HILARIO TUAZON

STATE OF
CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO.
42C0669
POST MILE

G STREET OVERCROSSING
LOG OF TEST BORINGS 1 OF 7

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES
FOR REDUCED PLANS



UNIT: 3591 CONTRACT NO.: 06-2HT01
PROJECT NO. & PHASE: 0612000239-1

CHSTP CONTRACT NO.

DISREGARD PRINTS BEARING
EARLIER REVISION DATES

REVISION DATES				SHEET	OF
5-07-12				29	35

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USERNAME => s120745 DATE PLOTTED => 30-MAY-2012 TIME PLOTTED => 16:35

FOR PLAN VIEW AND ADDITIONAL NOTES, SEE
"LOG OF TEST BORINGS" SHEET 1 OF 7

DIST06COUNTYFreROUTEPOST MILESTOTAL PROJECTTOTAL PROJECTSHEET No. TOTAL SHEETS

Nathan L. Dahlen

REGISTERED CIVIL ENGINEER

DATE

REGISTERED PROFESSIONAL ENGINEER

NATHAN L. DAHLEN


No. C 71344

Exp. 12/31/12

CIVIL

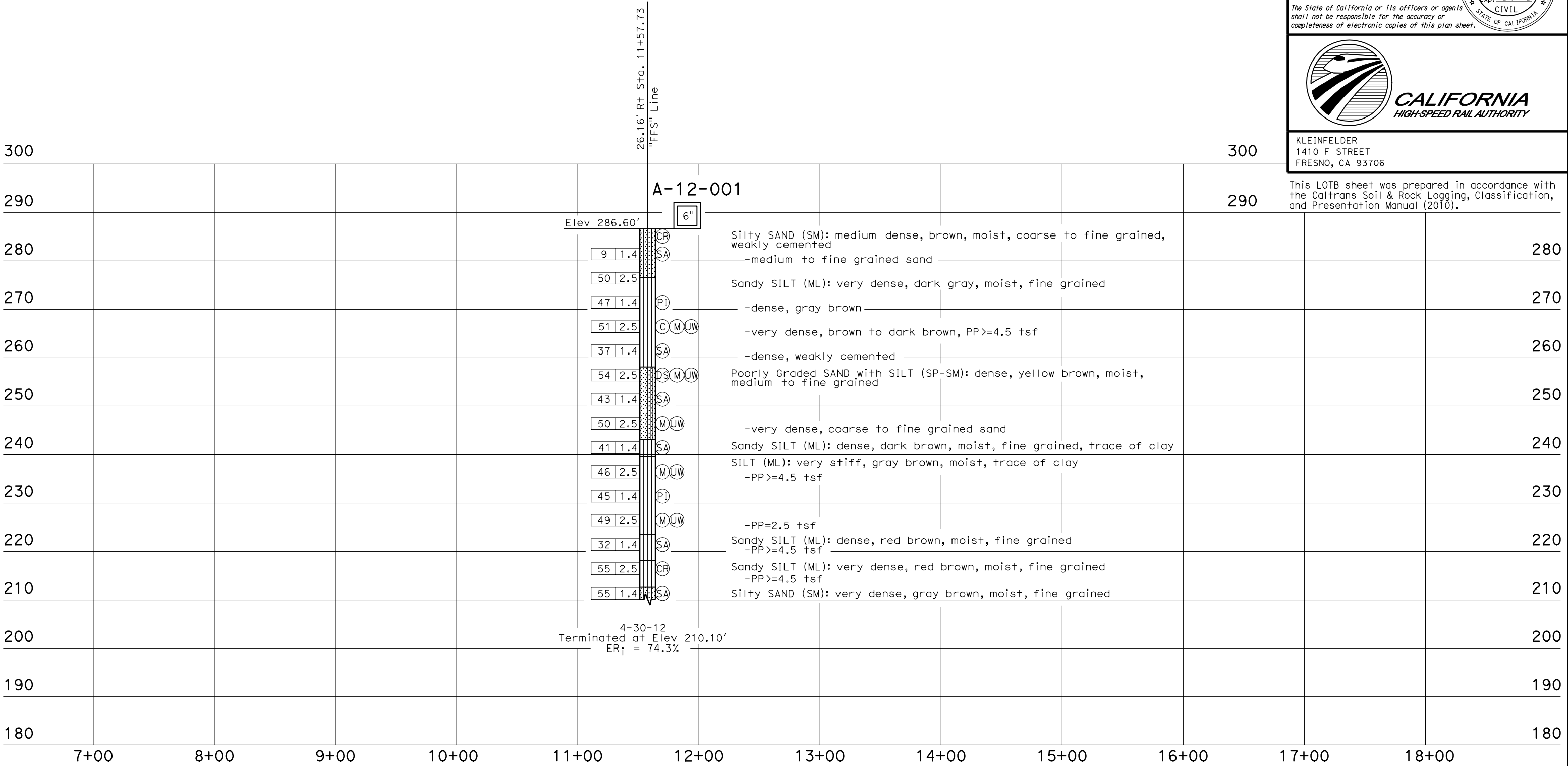
STATE OF CALIFORNIA

PLANS APPROVAL DATE

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

KLEINFELDER
1410 F STREET
FRESNO, CA 93706

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PROFILE
HOR. 1"=40'
VER. 1"=10'

DESIGN	BY DAVID ALVAREZ	CHECKED HILARIO TUAZON
DETAILS	BY AL SANCHEZ	CHECKED NATHAN DAHLEN
QUANTITIES	BY DON NGUYEN-TAN	CHECKED HILARIO TUAZON

STATE OF
CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

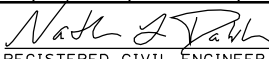
BRIDGE NO.
42C0669
POST MILE

G STREET OVERCROSSING
LOG OF TEST BORINGS 2 OF 7



FOR PLAN VIEW AND ADDITIONAL NOTES, SEE
"LOG OF TEST BORINGS" SHEET 1 OF 7

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre				



REGISTERED CIVIL ENGINEER

X
DATE

REGISTERED PROFESSIONAL ENGINEER
NATHAN L. DAHLEN
No. C 71344
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA

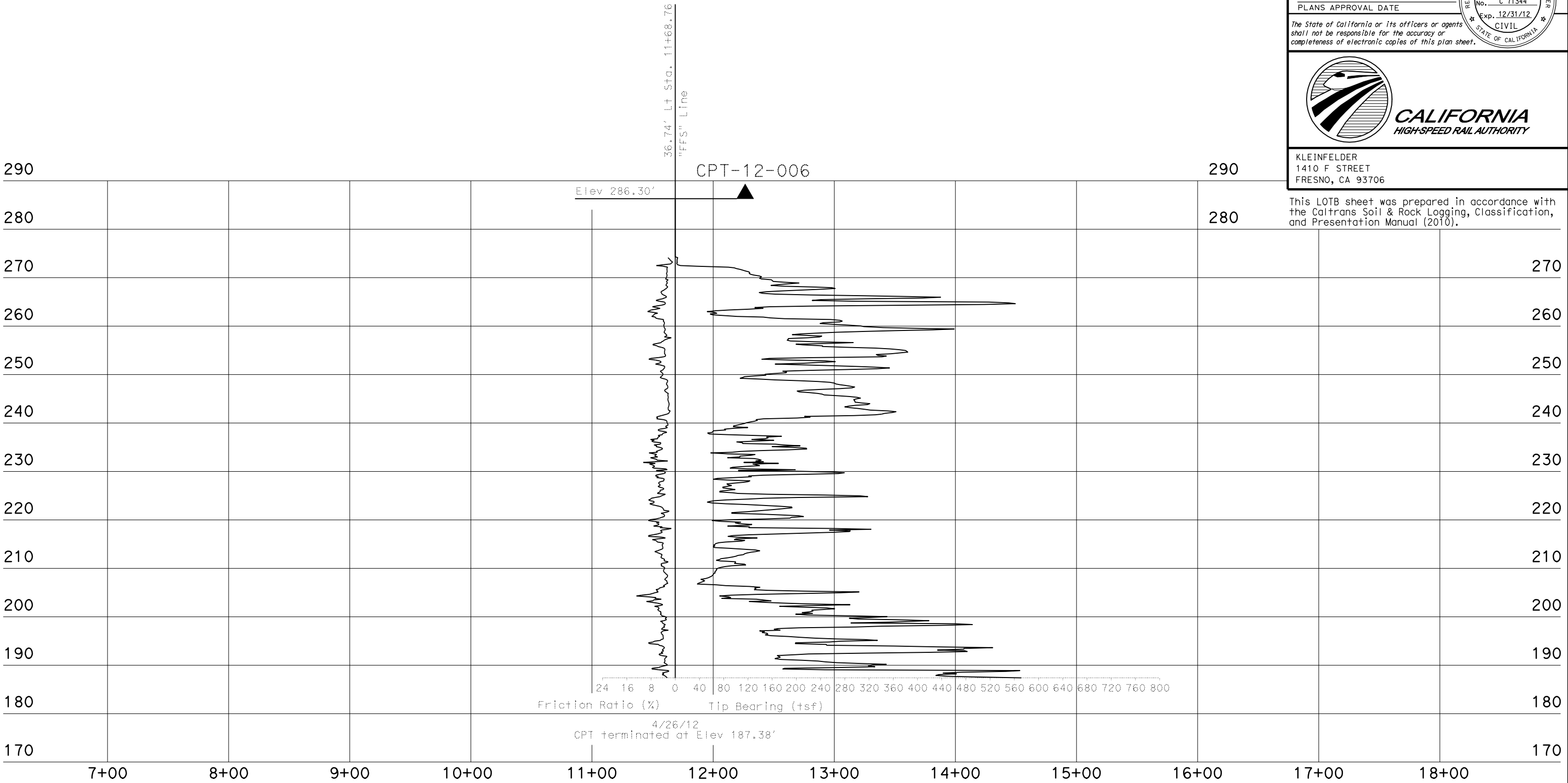
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**CALIFORNIA**
HIGH-SPEED RAIL AUTHORITY

KLEINFELDER
1410 F STREET
FRESNO, CA 93706

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PROFILE
HOR. 1"=40'
VER. 1"=10'

DESIGN	BY DAVID ALVAREZ	CHECKED HILARIO TUAZON
DETAILS	BY AL SANCHEZ	CHECKED NATHAN DAHLEN
QUANTITIES	BY DON NGUYEN-TAN	CHECKED HILARIO TUAZON

STATE OF
CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO.
42C0669
POST MILE

G STREET OVERCROSSING
LOG OF TEST BORINGS 3 OF 7



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Ffe				

Nathan L. Dahlen X
 REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 NATHAN L. DAHLEN
 No. C 71344
 Exp. 12/31/12
 CIVIL
 STATE OF CALIFORNIA



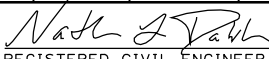
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	DESIGN	BY DAVID ALVAREZ	CHECKED HILARIO TUAZON	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO.	G STREET OVERCROSSING															
	DETAILS	BY AL SANCHEZ	CHECKED NATHAN DAHLEN			42C0669																
	QUANTITIES	BY DON NGUYEN-TAN	CHECKED HILARIO TUAZON			POST MILE	LOG OF TEST BORINGS 4 OF 7															
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0123	UNIT: 3591 CONTRACT NO.: 06-2HT201 PROJECT NO. & PHASE: 0612000239-1		CHSTP CONTRACT NO.	DISREGARD PRINTS BEARING EARLIER REVISION DATES →	REVISION DATES				SHEET	OF							
																					32	35

FOR PLAN VIEW AND ADDITIONAL NOTES, SEE
"LOG OF TEST BORINGS" SHEET 1 OF 7

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre				



REGISTERED CIVIL ENGINEER

X
DATE

REGISTERED PROFESSIONAL ENGINEER
NATHAN L. DAHLEN
No. C 71344
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA

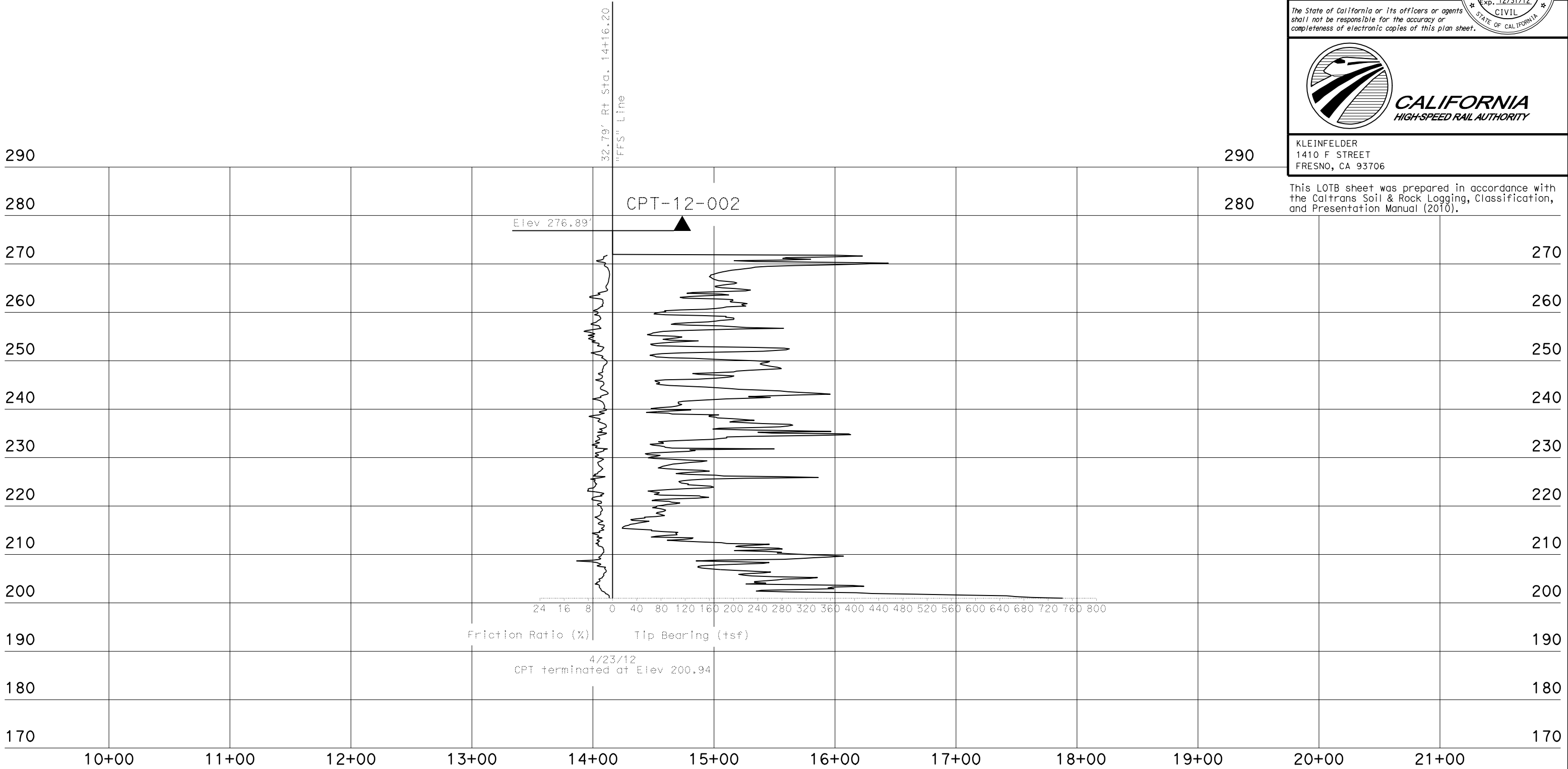
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**CALIFORNIA**
HIGH-SPEED RAIL AUTHORITY

KLEINFELDER
1410 F STREET
FRESNO, CA 93706

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (2010).



PROFILE

HOR. 1"=40'
VER. 1"=10'

DESIGN	BY DAVID ALVAREZ	CHECKED HILARIO TUAZON
DETAILS	BY AL SANCHEZ	CHECKED NATHAN DAHLEN
QUANTITIES	BY DON NGUYEN-TAN	CHECKED HILARIO TUAZON

STATE OF
CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO.
42C0669
POST MILE

G STREET OVERCROSSING
LOG OF TEST BORINGS 5 OF 7



REFERENCE: CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL (2010)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre				

Nathan L. Dahlen X
REGISTERED CIVIL ENGINEER DATE _____

PLANS APPROVAL DATE

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



REGISTERED PROFESSIONAL ENGINEER
NATHAN L. DAHLEN
No. C 71344
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA



KLEINFELDER
1410 F STREET
FRESNO, CA 93706

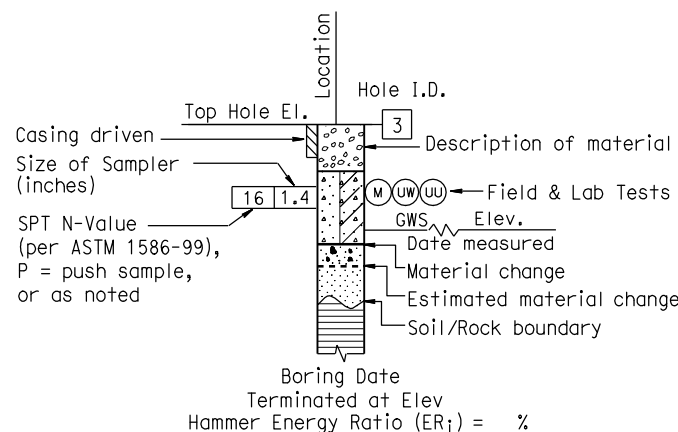
This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (2010).

CEMENTATION	
Description	Criteria
Weak	Crumbles or breaks with handling or little finger pressure.
Moderate	Crumbles or breaks with considerable finger pressure.
Strong	Will not crumble or break with finger pressure.

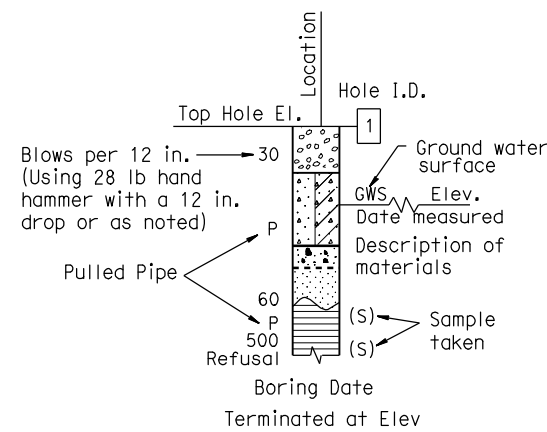
BOREHOLE IDENTIFICATION		
Symbol	Hole Type	Description
	A	Auger Boring (hollow or solid stem bucket)
	R	Rotary drilled boring (conventional)
	RW	Rotary drilled with self-casing wire-line
	RC	Rotary core with continuously-sampled, self-casing wire-line
	P	Rotary percussion boring (air)
	R	Rotary drilled diamond core
	HD	Hand driven (1-inch soil tube)
	HA	Hand Auger
	D	Dynamic Cone Penetration Boring
	CPT	Cone Penetration Test (ASTM D 5778)
	O	Other (note on LOTB)

Note: Size in inches.

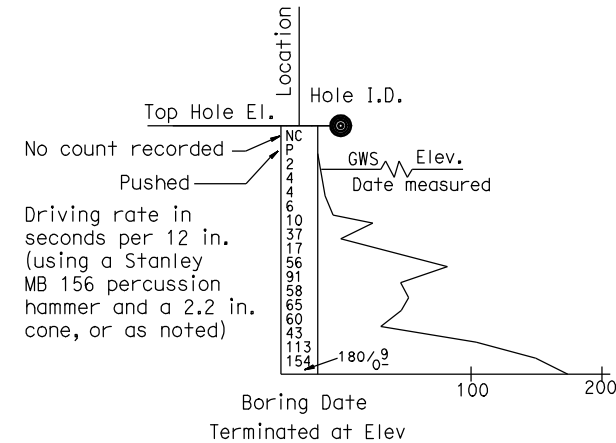
Consistency of Cohesive Soils				
Description	Shear Strength (tsf)	Pocket Penetrometer Measurement, PP, (tsf)	Torvane Measurement, TV, (tsf)	Vane Shear Measurement, VS, (tsf)
Very Soft	Less than 0.12	Less than 0.25	Less than 0.12	Less than 0.12
Soft	0.12 - 0.25	0.25 - 0.5	0.12 - 0.25	0.12 - 0.25
Medium Stiff	0.25 - 0.5	0.5 - 1	0.25 - 0.5	0.25 - 0.5
Stiff	0.5 - 1	1 - 2	0.5 - 1	0.5 - 1
Very Stiff	1 - 2	2 - 4	1 - 2	1 - 2
Hard	Greater than 2	Greater than 4	Greater than 2	Greater than 2



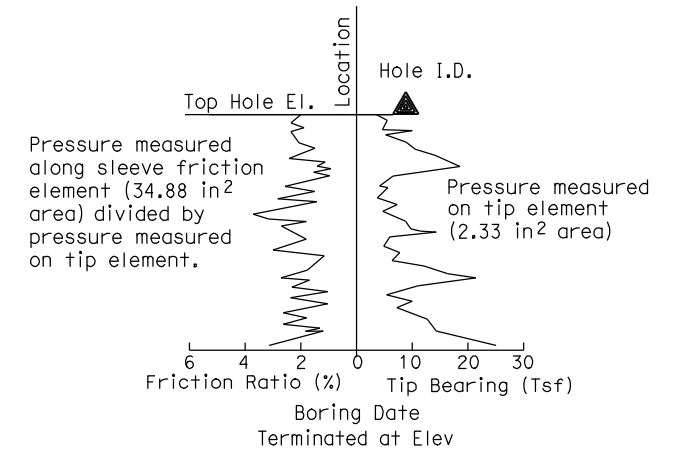
ROTARY BORING



HAND BORING



DYNAMIC CONE PENETRATION BORING





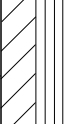








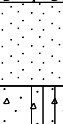

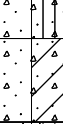








CONE PENETRATION TEST (CPT) BORING

	DESIGN	BY DAVID ALVAREZ	CHECKED HILARIO TUAZON	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO.	G STREET OVERCROSSING					
	DETAILS	BY AL SANCHEZ	CHECKED NATHAN DAHLEN			42C0669						
	QUANTITIES	BY DON NGUYEN-TAN	CHECKED HILARIO TUAZON				POST MILE	LOG OF TEST BORINGS 6 OF 7				
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	UNIT: 3591 CONTRACT NO.: 06-2HT201 PROJECT NO. & PHASE: 0612000239-1	CHSTP CONTRACT NO.	DISREGARD PRINTS BEARING EARLIER REVISION DATES →	REVISION DATES		SHEET	OF
											34	35

REFERENCE: CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL (2010)

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (2010).

GROUP SYMBOLS AND NAMES							
Graphic/Symbol		Group Names		Graphic/Symbol		Group Names	
	GW	Well-graded GRAVEL Well-graded GRAVEL with SAND			CL	Lean CLAY Lean CLAY with SAND Lean CLAY with GRAVEL SANDY lean CLAY SANDY lean CLAY with GRAVEL GRAVELLY lean CLAY GRAVELLY lean CLAY with SAND	
	GP	Poorly-graded GRAVEL Poorly-graded GRAVEL with SAND					
	GW-GM	Well-graded GRAVEL with SILT Well-graded GRAVEL with SILT and SAND			CL-ML	SILTY CLAY SILTY CLAY with SAND SILTY CLAY with GRAVEL SANDY SILTY CLAY SANDY SILTY CLAY with GRAVEL GRAVELLY SILTY CLAY GRAVELLY SILTY CLAY with SAND	
	GW-GC	Well-graded GRAVEL with CLAY (or SILTY CLAY) Well-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)					
	GP-GM	Poorly-graded GRAVEL with SILT Poorly-graded GRAVEL with SILT and SAND			ML	SILT SILT with SAND SILT with GRAVEL SANDY SILT SANDY SILT with GRAVEL GRAVELLY SILT GRAVELLY SILT with SAND	
	GP-GC	Poorly-graded GRAVEL with CLAY (or SILTY CLAY) Poorly-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)					
	GM	SILTY GRAVEL SILTY GRAVEL with SAND			OL	ORGANIC lean CLAY ORGANIC lean CLAY with SAND ORGANIC lean CLAY with GRAVEL SANDY ORGANIC lean CLAY SANDY ORGANIC lean CLAY with GRAVEL GRAVELLY ORGANIC lean CLAY GRAVELLY ORGANIC lean CLAY with SAND	
	GC	CLAYEY GRAVEL CLAYEY GRAVEL with SAND					
	GC-GM	SILTY, CLAYEY GRAVEL SILTY, CLAYEY GRAVEL with SAND			OL	ORGANIC SILT ORGANIC SILT with SAND ORGANIC SILT with GRAVEL SANDY ORGANIC SILT SANDY ORGANIC SILT with GRAVEL GRAVELLY ORGANIC SILT GRAVELLY ORGANIC SILT with SAND	
	SW	Well-graded SAND Well-graded SAND with GRAVEL					
	SP	Poorly-graded SAND Poorly-graded SAND with GRAVEL			CH	Fat CLAY Fat CLAY with SAND Fat CLAY with GRAVEL SANDY fat CLAY SANDY fat CLAY with GRAVEL GRAVELLY fat CLAY GRAVELLY fat CLAY with SAND	
	SW-SM	Well-graded SAND with SILT Well-graded SAND with SILT and GRAVEL					
	SW-SC	Well-graded SAND with CLAY (or SILTY CLAY) Well-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)			MH	Elastic SILT Elastic SILT with SAND Elastic SILT with GRAVEL SANDY elastic SILT SANDY elastic SILT with GRAVEL GRAVELLY elastic SILT GRAVELLY elastic SILT with SAND	
	SP-SM	Poorly-graded SAND with SILT Poorly-graded SAND with SILT and GRAVEL					
	SP-SC	Poorly-graded SAND with CLAY (or SILTY CLAY) Poorly-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)			OH	ORGANIC fat CLAY ORGANIC fat CLAY with SAND ORGANIC fat CLAY with GRAVEL SANDY ORGANIC fat CLAY SANDY ORGANIC fat CLAY with GRAVEL GRAVELLY ORGANIC fat CLAY GRAVELLY ORGANIC fat CLAY with SAND	
	SM	SILTY SAND SILTY SAND with GRAVEL					
	SC	CLAYEY SAND CLAYEY SAND with GRAVEL			OH	ORGANIC elastic SILT ORGANIC elastic SILT with SAND ORGANIC elastic SILT with GRAVEL SANDY ORGANIC elastic SILT SANDY ORGANIC elastic SILT with GRAVEL GRAVELLY ORGANIC elastic SILT GRAVELLY ORGANIC elastic SILT with SAND	
	SC-SM	SILTY, CLAYEY SAND SILTY, CLAYEY SAND with GRAVEL					
	PT	PEAT			OL/OH	ORGANIC SOIL ORGANIC SOIL with SAND ORGANIC SOIL with GRAVEL SANDY ORGANIC SOIL SANDY ORGANIC SOIL with GRAVEL GRAVELLY ORGANIC SOIL GRAVELLY ORGANIC SOIL with SAND	
		COBBLES COBBLES and BOULDERS BOULDERS					

FIELD AND LABORATORY TESTING	
	Consolidation (ASTM D 2435)
	Collapse Potential (ASTM D 5333)
	Compaction Curve (ASTM D 1557)
	Corrosivity Testing (CTM 643, CTM 422, CTM 417)
	Consolidated Undrained Triaxial (ASTM D 4767)
	Direct Shear (ASTM D 3080)
	Expansion Index (ASTM D 4829)
	Moisture Content (ASTM D 2216)
	Organic Content-% (ASTM D 2974)
	Permeability (CTM 220)
	Particle Size Analysis (ASTM D 422)
	Plasticity Index (AASHTO T 90) Liquid Limit (AASHTO T 89)
	Point Load Index (ASTM D 5731)
	Pressure Meter
	R-Value (CTM 301)
	Sand Equivalent (CTM 217)
	Specific Gravity (AASHTO T 100)
	Shrinkage Limit (ASTM D 427)
	Swell Potential (ASTM D 4546)
	Unconfined Compression-Soil (ASTM D 2166)
	Unconfined Compression-Rock (ASTM D 2938)
	Unconsolidated Undrained Triaxial (ASTM D 2850)
	Unit Weight (ASTM D 4767)

DIST06COUNTYFreROUTEPOST MILESTOTAL PROJECTTOTAL SHEETS

REGISTERED CIVIL ENGINEER

Nathan L. Dahlen

C 71344

12/31/12

CIVIL

DATE

PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CALIFORNIA

HIGH-SPEED RAIL AUTHORITY

KLEINFELDER

1410 F STREET

FRESNO, CA 93706

APPARENT DENSITY OF COHESIONLESS SOILS	
Description	SPT N ₆₀ (Blows / 12 in.)
Very Loose	0 - 5
Loose	5 - 10
Medium Dense	10 - 30
Dense	30 - 50
Very Dense	Greater than 50

MOISTURE	
Description	Criteria
Dry	No discernable moisture
Moist	Moisture present, but no free water
Wet	Visible free water

PERCENT OR PROPORTION OF SOILS	
Description	Criteria
Trace	Particles are present but estimated to be less than 5%
Few	5% - 10%
Little	15% - 25%
Some	30% - 45%
Mostly	50% - 100%

PARTICLE SIZE		
Description		Size (in.)
Boulder		Greater than 12
Cobble		3 - 12
Gravel	Coarse	3/4 - 3
	Fine	1/5 - 3/4
Sand	Coarse	1/16 - 1/5
	Medium	1/64 - 1/16
	Fine	1/300 - 1/64
Silt and Clay		Less than 1/300

DESIGN	BY DAVID ALVAREZ	CHECKED HILARIO TUAZON
DETAILS	BY AL SANCHEZ	CHECKED NATHAN DAHLEN
QUANTITIES	BY DON NGUYEN-TAN	CHECKED HILARIO TUAZON

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO.
42C0669
POST MILE

G STREET OVERCROSSING
LOG OF TEST BORINGS 7 OF 7

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES
FOR REDUCED PLANS

0 1 2 3

UNIT: 3591 CONTRACT NO.: 06-2HT201
PROJECT NO. & PHASE: 0612000239-1

CHSTP CONTRACT NO.

DISREGARD PRINTS BEARING
EARLIER REVISION DATES

REVISION DATES SHEET OF
35 35

FILE => 42c0669-z-1tb07-a.dgn

USERNAME => s120745 DATE PLOTTED => 30-MAY-2012 TIME PLOTTED => 16:35